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FIGURE 3697

GATGTTTCAGTCCTGGAAAGACAAGCATC**ATG**CCTCTGACCAGTGCCTTCAGGGCTGTGGACAACGACCCTGGGA
TCATTGTCTGGAGAATAGAGAAAATGGAGCTGGCGCTGGTGCCTGTGAGCGCCCACGGCAACTTCTATGAGGGGG
ACTGCTACGTCATCCTCTCGACCCGGAGAGTGGCCAGTCTCCTATCCCAGGACATCCACTTCTGGATCGGGAAGG
ACTCCTCCCAGGATGAGCAAAGCTGCGCAGCCATATATACCACACAGCTGGACGACTACCTGGGAGGCAGCCCTG
TGCAGCACCGAGAGGTCCAGTACCATGAGTCAGACACTTTCCGTGGCTACTTCAAGCAGGGCATCATCTACAAGC
AGGGGGGTGTCGCCTCTGGGATGAAGCACGTGGAGACCAATACCTACGACGTGAAGCGGCTGCTACATGTGAAAG
GGAAAAGAAACATCAGGGCTACCGAGGTGGAAATGAGCTGGGACAGTTTCAACCGAGGTGATGTCTTCTTGCTGG
ACCTTGGGAAAGTCATCATCCAATGGAATGGCCCAGAGAGCAACAGTGGGGAGCGCCTGAAGGCTATGCTTCTGG
CAAAGGATATTCGAGACAGGGAGCGAGGGGGCCGTGCTGAAATAGGAGTGATCGAGGGAGACAAGGAGGCAGCCA
GCCCAGAGCTGATGAAGGTCCTTCAGGACACCCTTGGCCGACGCTCCATTATCAAGCCTACAGTCCCTGATGAGA
TCATAGATCAGAAGCAGAAATCAACTATCATGTTGTATCATATCTCAGATTCAGCTGGGCAGCTGGCAGTCACAG
AGGTAGCAACAAGGCCTCTGGTCCAGGACTTACTGAACCATGATGACTGCTACATCCTGGACCAAAGTGGAACCA
AAATCTACGTGTGGAAAGGAAAAGGAGCCACAAAGGCTGAAAAACAGGCAGCCATGTCTAAAGCGCTGGGCTTCA
TCAAGATGAAGAGCTACCCCAGCAGCACCAATGTGGAGACCGTCAACGATGGTGCTGAGTCGGCCATGTTCAAGC
AGCTGTTCCAGAAGTGGTCAGTAAAGGACCAGACCATGGGCCTGGGGAAAACGTTCAGCATTGGTAAAATTGCTA
AAGTTTTCCAGGATAAATTTGATGTGACTCTGCTACACACCAAGCCAGAGGTAGCTGCCCAGGAAAGAATGGTCG
ATGATGGCAACGGAAAAGTTGAGGTCTGGAGAATTGAGAACCTGGAGCTGGTCCCTGTGGAGTATCAATGGTATG
GCTTCTTTTATGGGGGAGACTGTTATCTGGTCCTCTACACATACGAGGTAAATGGGAAGCCACATCACATCTTGT
ACATCTGGCAGGGCCGCCACGCCTCACAGGATGAGCTGGCAGCCTCAGCATACCAGGCAGTGGAGGTGGATCGGC
AGTTTGATGGGGCTGCTGTGCAGGTTCGAGTCAGGATGGGAACGGAGCCACGCCACTTCATGGCCATCTTCAAAG
GGAAGCTAGTTATCTTTGAGGGTGGGACTTCCAGGAAGGGAAATGCCGAGCCTGACCCTCCAGTAAGACTCTTCC
AAATTCATGGAAATGACAAATCTAACACCAAAGCAGTGGAAGTTCCAGCCTTTGCCTCCTCCCTAAACTCCAATG
ATGTCTTTCTGCTGCGAACTCAGGCAGAGCACTACCTGTGGTATGGCAAGGGGTCTAGTGGGGATGAGCGGGCAA
TGGCTAAGGAGCTGGCCAGCCTTCTCTGTGATGGCAGCGAGAACACTGTGGCCGAGGGCCAGGAGCCAGCCGAGT
TCTGGGACCTACTGGGAGGGAAAACTCCCTATGCCAATGATAAAAGACTTCAGCAGGAAATCCTAGATGTCCAGT
CTCGTCTCTTTGAATGTTCCAATAAGACCGGCCAATTCGTTGTCACTGAGATCACAGACTTCACCCAGGATGACC
TGAACCCTACTGACGTGATGCTCCTAGATACCTGGGACCAGGTGTTCTTGTGGATTGGGGCTGAGGCCAATGCCA
CGGAGAAGGAGAGTGCCCTTGCCACAGCACAGCAGTACCTGCACACTCACCCCAGCGGCCGAGATCCCGACACAC
CAATCCTGATCATTAAGCAGGGGTTTGAGCCTCCCATCTTCACAGGCTGGTTCCTAGCCTGGGACCCTAACATTT
GGAGTGCAGGAAAAACATATGAACAATTAAAAGAAGAGCTGGGAGATGCTGCTGCTATCATGCGAATCACTGCTG
ACATGAAGAATGCAACCCTCTCCCTGAATTCTAATGACAGTGAGCCAAAATATTACCCTATAGCAGTTCTGTTGA
AAAACCAGAATCAGGAGCTGCCTGAGGATGTAAACCCTGCCAAAAAGGAGAATTACCTCTCTGAACAGGACTTTG
TGTCTGTGTTTGGCATCACAAGAGGGCAATTTGCAGCTCTGCCTGGCTGGAAACAGCTCCAAATGAAGAAAGAAA
AGGGGCTTTTC**TAA**AGCAAGAAGGCCTATACCTATTGCAAGGCCACAGAAAGAGCAGATAGTGCCAATATCAGG
AAATAATTTATCCACCAATTTCTGCCTGACATTCAGCTACTTAATTTAGATATAATAGAGTCTGCAAATCACGGC
ATGTTCTCCATTTTTTCTCATCCTTGCATTCCTTGCTTGTTATATACCTAAAATGTTAACCATATAGTTTTTGGG
TTTTGTGGCCC

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FIGURE 3698

MPLTSAFRAVDNDPGIIVWRIEKMELALVPVSAHGNFYEGDCYVILSTRRVASLLSQDIHFWIGKDSSQDEQSCA
AIYTTQLDDYLGGSPVQHREVQYHESDTFRGYFKQGIIYKQGGVASGMKHVETNTYDVKRLLHVKGKRNIRATEV
EMSWDSFNRGDVFLLDLGKVIIQWNGPESNSGERLKAMLLAKDIRDRERGGRAEIGVIEGDKEAASPELMKVLQD
TLGRRSIIKPTVPDEIIDQKQKSTIMLYHISDSAGQLAVTEVATRPLVQDLLNHDDCYILDQSGTKIYVWKGKGA
TKAEKQAAMSKALGFIKMKSYPSSTNVETVNDGAESAMFKQLFQKWSVKDQTMGLGKTFSIGKIAKVFQDKFDVT
LLHTKPEVAAQERMVDDGNGKVEVWRIENLELVPVEYQWYGFFYGGDCYLVLYTYEVNGKPHHILYIWQGRHASQ
DELAASAYQAVEVDRQFDGAAVQVRVRMGTEPRHFMAIFKGKLVIFEGGTSRKGNAEPDPPVRLFQIHGNDKSNT
KAVEVPAFASSLNSNDVFLLRTQAEHYLWYGKGSSGDERAMAKELASLLCDGSENTVAEGQEPAEFWDLLGGKTP
YANDKRLQQEILDVQSRLFECSNKTGQFVVTEITDFTQDDLNPTDVMLLDTWDQVFLWIGAEANATEKESALATA
QQYLHTHPSGRDPDTPILIIKQGFEPPIFTGWFLAWDPNIWSAGKTYEQLKEELGDAAAIMRITADMKNATLSLN
SNDSEPKYYPIAVLLKNQNQELPEDVNPAKKENYLSEQDFVSVFGITRGQFAALPGWKQLQMKKEKGLF

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FIGURE 3699A

ACACACCACACACACTCACACTCACACACACTCACACACACTCATCCCACTTGAATCTTGGGGCAGGAACTCAGA
AAACTTCCAGCCCGGGCAGCGCGCGCTTGGTGCAAGACTCAGGAGCTAGCAGCCCGTCCCCCTCCGACTCTCCGG
TGCCGCCGCTGCCTGCTCCCGCCACCCTAGGAGGCGCGGTGCCACCCACTACTCTGTCCTCTGCCTGTGCTCCGT
GCCCGACCCTATCCCGGCGGAGTCTCCCCATCCTCCTTTGCTTTCCGACTGCCCAAGGCACTTTCAATCTCAATC
TCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCGCAGGGTGGGGGGAAG
AGGAGGAGGAATTCTTTCCCCGCCTAACATTTCAAGGGACACAATTCACTCCAAGTCTCTTCCCTTTCCAAGCCG
CTTCCGAAGTGCTCCCGGTGCCCGCAACTCCTGATCCCAACCCGCGAGAGGAGCCTCTGCGACCTCAAAGCCTCT
CTTCCTTCTCCCTCGCTTCCCTCCTCCTCTTGCTACCTCCACCTCCACCGCCACCTCCACCTCCGGCACCCACCC
ACCGCCGCCGCCGCCACCGGCAGCGCCTCCTCCTCTCCTCCTCCTCCTCCCCTCTTCTCTTTTTGGCAGCCGCTG
GACGTCCGGTGTTGATGGTGGCAGCGGCGGCAGCCTAAGCAACAGCAGCCCTCGCAGCCCGCCAGCTCGCGCTCG
CCCCGCCGGCGTCCCCAGCCCTATCACCTCATCTCCCGAAAGGTGCTGGGCAGCTCCGGGGCGGTCGAGGCGAAG
CGGCTGCAGCGGCGGTAGCGGCGGCGGGAGGCAGGATGAGCGCACGCGGTGAGGGCGCGGGGCAGCCGTCCACTT
CAGCCCAGGGACAACCTGCCGCCCCAGCGCCTCAGAAGAGAGGACGCGGCCGCCCCAGGAAGCAGCAGCAAGAAC
CAACCGGTGAGCCCTCTCTTAAGAGACCCAGGGGAAGACCCAAAGGCAGCAAAAACAAGAGTCCCTCTAAAGCAG
CTCAAAAGAAAGCAGAAGCCACTGGAGAAAAACGGCCAAGAGGCAGACCTAGGAAATGGCCACAACAAGTTGTTC.
AGAAGAAGCCTGCTCAGGAGGAAACTGAAGAGACATCCTCACAAGAGTCTGCCGAAGAGGACTAGGGGGCGCCAA
CGTTCGATTTCTACCTCAGCAGCAGTTGGATCTTTTGAAGGGAGAAGACACTGCAGTGACCACTTATTCTGTATT
GCCATGGTCTTTCCACTTTCATCTGGGGTGGGGTGGGGTGGGGTGGGGGGAGGGXGGXXTGGGGTGGGGAGAAAT
CACATAACCTTAAAAAGGACTATATTAATCACCTTCTTTGTAATCCCTTCACAGTCCCAGGTTTAGTGAAAAACT
GCTGTAAACACAGGGGACACAGCTTAACAATGCAACTTTTAATTACTGTTTTCTTTTTTCTTAACCTACTAATAG
TTTGTTGATCTGATAAGCAAGAGTGGGCGGGTGAGAAAAACCGAATTGGGTTTAGTCAATCACTGCACTGCATGC
AAACAAGAAACGTGTCACACTTGTGACGTCGGGCATTCATATAGGAAGAACGCGGTGTGTAACACTGTGTACACC
TCAAATACCACCCCAACCCACTCCCTGTAGTGAATCCTCTGTTTAGAACACCAAAGATAAGGACTAGATACTACT
TTCTCTTTTTCGTATAATCTTGTAGACACTTACTTGATGATTTTTAACTTTTTATTTCTAAATGAGACGAAATGC
TGATGTATCCTTTCATTCAGCTAACAAACTAGAAAAGGTTATGTTCATTTTTCAAAAAGGGAAGTAAGCAAACAA
ATATTGCCAACTCTTCTATTTATGGATATCACACATATCAGCAGGAGTAATAAATTACTCACAGCACTTGTTTT
CAGGACAACACTTCATTTTCAGGAAATCTACTTCCTACAGAGCCAAAATGCCATTTAGCAATAAATAACACTTGT
CAGCCTCAGAGCATTTAAGGAAACTAGACAAGTAAAATTATCCTCTTTGTAATTTAATGAAAAGGTACAACAGAA
TAATGCATGATGAACTCACCTAATTATGAGGTGGGAGGAGCGAAATCTAAATTTCTTTTGCTATAGTTATACATC
AATTTAAAAAGCAAAAAAAAAAAAGGGGGGGGCAATCTCTCTCTGTGTCTTTCTCTCTCTCTTCCTCTCCCTC
TCTCTTTTCATTGTGTATCAGTTTCCATGAAAGACCTGAATACCACTTACCTCAAATTAAGCATATGTGTTACTT
CAAGTAATACGTTTTGACATAAGATGGTTGACCAAGGTGCTTTTCTTCGGCTTGAGTTCACCATCTCTTCATTCA
AACTGCACTTTTAGCCAGAGATGCAATATATCCCCACTACTCAATACTACCTCTGAATGTTACAACGAATTTACA
GTCTAGTACTTATTACATGCTGCTATACACAAGCAATGCAAGAAAAAAACTTACTGGGTAGGTGATTCTAATCAT
CTGCAGTTCTTTTTGTACACTTAATTACAGTTAAAGAAGCAATCTCCTTACTGTGTTTCAGCATGACTATGTATT
TTTCTATGTTTTTTTAATTAAAAATTTTTAAAATACTTGTTTCAGCTTCTCTGCTAGATTTCTACATTAACTTGA
AAATTTTTAACCAAGTCGCTCCTAGGTTCTTAAGGATAATTTTCCTCAATCACACTACACATCACACAAGATTT
GACTGTAATATTTAAATATTACCCTCCAAGTCTGTACCTCAAATGAATTCTTTAAGGAGATGGACTAATTGACTT
GCAAAGACCTACCTCCAGACTTCAAAAGGAATGAACTTGTTACTTGCAGCATTCATTTGTTTTTTCAATGTTTGA
AATAGTTCAAACTGCAGCTAACCCTAGTCAAAACTATTTTTGTAAAAGACATTTGATAGAAAGGAACACGTTTTT
ACATACTTTTGCAAAATAAGTAAATAATAAATAAAATAAAAGCCAACCTTCAAAGAAACTTGAAGCTTTGTAGGT
GAGATGCAACAAGCCCTGCTTTTGCATAATGCAATCAAAAATATGTGTTTTAAGATTAGTTGAATATAAGAAAA
TGCTTGACAAATATTTTCATGTATTTTACACAAATGTGATTTTTGTAATATGTCTCAACCAGATTTATTTAAAC
GCTTCTTATGTAGAGTTTTTATGCCTTTCTCTCCTAGTGAGTGTGCTGACTTTTAACATGGTATTATCAACTGG
GCCAGGAGGTAGTTTCTCATGACGGCTTTTGTCAGTATGGCTTTTAGTACTGAAGCCAAATGAAACTCAAAACCA
TCTCTCTTCCAGCTGCTTCAGGGAGGTAGTTTCAAAGGCCACATACCTCTCTGAGACTGGCAGATCGCTCACTGT
TGTGAATCACCAAAGGAGCTATGGAGAGAATTAAAACTCAACATTACTGTTAACTGTGCGTTAAATAAGCAAATA
AACAGTGGCTCATAAAAATAAAAGTCGCATTCCATATCTTTGGATGGGCCTTTTAGAAACCTCATTGGCCAGCTC

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FIGURE 3699B

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ATAAAATGGAAGCAATTGCTCATGTTGGCCAAACATGGTGCACCGAGTGATTTCCATCTCTGGTAAAGTTACACT
TTTATTTCCTGTATGTTGTACAATCAAAACACACTACTACCTCTTAAGTCCCAGTATACCTCATTTTTCATACTG
AAAAAAAAAGCTTGTGGCCAATGGAACAGTAAGAACATCATAAAATTTTTATATATATAGTTTATTTTTGTGGGA
GATAAATTTTATAGGACTGTTCTTTGCTGTTGTTGGTCGCAGCTACATAAGACTGGACATTTAACTTTTCTACCA
TTTCTGCAAGTTAGGTATGTTTGCAGGAGAAAAGTATCAAGACGTTTAACTGCAGTTGACTTTCTCCCTGTTCCT
TTGAGTGTCTTCTAACTTTATTCTTTGTTCTTTATGTAGAATTGCTGTCTATGATTGTACTTTGAATCGCTTGCT
TGTTGAAAATATTTCTCTAGTGTATTATCACTGTCTGTTCTGCACAATAAACATAACAGCCTCTGTGA
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FIGURE 3700

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CCTTCTCACCTAACGCCACCAACATGGTGTTCAGGCGCTTCGTGGAGGTTGGCCGGGTGGCCTATGTCTCCTTTG
GACCTCATGCCGGAAAATTGGTCGCGATTGTAGATGTTATTGATCAGAACAGGGCTTTGGTCGATGGACCTTGCA
CTCAAGTGAGGAGACAGGCCATGCCTTTCAAGTGCATGCAGCTCACTGATTTCATCCTCAAGTTTCCGCACAGTG
CCCGCCAAAAGTATGTCCAACAAGCCTGGCAGAAGGCAGACATCAATACAAAATGGGCAGCCACACGATGGGCCA
AGAAGATTGAAGCCAGAGAAAGGAAAGCCAAGATGACAGATTTTGATCGTTTTAAAGTTATGAAGGCAAAGAAAA
CGAGGAACAGAATAATCAAGAATGAAGTTAAGAAGCTTCAAAAGGCAGCTCTCCTGAAAGCTTCTCCCAAAAAAG
CACCTGGTACTAAGGGTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTAAAGTTCCAGCAAAAAAGATGACGG
CCGCGAGTAAAAAGGCTTCAGCCCAGAAGGTTCCTGCCCAGAAAGCCACAGGCCAGAAAGCAGCACCTGCTCCAA
AAGCTCAGAAGGGTCAAAAAGCTCCAGCCCAGAAAGCACCTGCTCCAAAGGCATCTGGCAAGAAAGCATAAGTGG
CAATCATAAAAAGTAATAAAGGTTCTTTTTGACCTGTTGGCAAATGTA
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FIGURE 3701

MVFRRFVEVGRVAYVSFGPHAGKLVAIVDVIDQNRALVDGPCTQVRRQAMPFKCMQLTDFILKFPHSARQKYVQQ
AWQKADINTKWAATRWAKKIEARERKAKMTDFDRFKVMKAKKTRNRIIKNEVKKLQKAALLKASPKKAPGTKGTA
AAAAAAAAAKVPAKKMTAASKKASAQKVPAQKATGQKAAPAPKAQKGQKAPAQKAPAPKASGKKA

FIGURE 3702

GAACGCCTCTGTGTTTGAAACAAACATTCGAGTGGTAGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGC
TGGGGTGGAAGTAGAGGCTGGATGGCCCTGTTCCGGGCCTCTCCTGAGA**ATG**GCTGAGGAGGCGGCCCGAAAACT
CCTCCCAGCCTTTCAGACCCCCACTGGCATGCCATATGGAACAGTGAACTTACTTCATGGCGTGAACCCAGGAGA
GACCCCTGTCACCTGTACGGCAGGGATTGGGACCTTCATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGTGA
CCCGGTGTTCGAAGATGTGGCCAGAGTGGCTTTGATGCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGAGTAT
AACAAAGCCATCCGGAACTACACCCGCTTCGATGACTGGTACCTGTGGGTTCAGATGTACAAGGGGACTGTGTCC
ATGCCAGTCTTCCAGTCCTTGGAGGCCTACTGGCCTGGTCTTCAGAGCCTCATTGGAGACATTGACAATGCCA**TG**
AGGACCTTCCTCAACTACTACACTGTATGGAAGCAGTTTGGGGGGCTCCCGGAATTCTACAACATTCCTCAGGGA
TACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAACTTATTGAAAGCGCAATGTACCTCTACCGTGCC
ACGGGGGATCCCACCCTCCTAGAACTCGGAAGAGATGCTGTGGAATCCATTGAAAAGCTGGACAACCGCATGGAG
TCGTTCTTCCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCACAACAATGGG
TCCACCTTCGACGCGGTGATCACCCCCTATGGGGAGTGCATCCTGGG

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FIGURE 3703

MAEEAARKLLPAFQTPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSLTGDPVFEDVARVALMRLWE
SRSDIGLSITKPSGTTPASMTGTCGFRCTRGLCPCQSSSPWRPTGLVFRASLETLTMP

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FIGURE 3704

CAAATTTTTATCAAAGTTAATGGATCAGTTAGAAGCTCTAAAGAAGCAGTTGGGTGATAATGAAGCTATTACTCA
AGAAATAGTGGGCTGTGCCCATTTGGAGAATTATGCTTTGAAAATGTTTTTGTATGCAGACAATGAAGATCGTGC
TGGACGATTTCACAAAAACATGATCAAGTCCTTCTATACTGCAAGTCTTTTGATAGATGTCATAACAGTATTTGG
AGAACTCACTGATGAAAATGTGAAACACAGGAAGTATGCCAGATGGAAGGCAACATACATCCATAATTGTTTAAA
GAATGGGGAGACTCCTCAAGCAGGCCCTGTTGGAATTGAAGAAGATAATGATATTGAAGAAAATGAAGATGCTGG
AGCAGCCTCTCTGCCCACTCAGCCAACTCAGCCATCATCATCTTCAACTTATGACCCAAGCAACATGCCATCAGG
CAACTATACTGGAATACAGATTCCTCCGGGTGCACACGCTCCAGCTAATACACCAGCAGAAGTGCCTCACAGCAC
AGGTGTAGCAAGTAATACTATCCAACCTACTCCACAGACTATACCTGCCATTGATCCCGCACTTTTCAATACAAT
TTCCCAGGGGGATGTTCGTCTAACCCCAGAAGACTTTGCTAGAGCTCAGAAGTACTGCAAATATGCTGGCAGTGC
TTTGCAGTATGAAGATGTAAGCACTGCTGTCCAGAATCTACAAAAGGCTCTCAAGTTACTGACGACAGGCAGAGA
ATGAAGCCTTTGTATGACAGACCCATGTATTTTTGGCATGAGGAACTAACAGTCCATTACTCTATCTTCAGCCTA
TCAGGATCACATTTTCATTGTCCATTTACTAGATTCAATCGTCTCTGAGTATATAGGGCTGATGTTAGCAAGACC
CTAAAAATGTCCATTGAACCCTGCTTCAAAAAATGAAACACACCTCTATAAAATGTGTACTGGGAATAAGCTTT
GTATTTACATACATTAGGGGAATTTTTTAAAATCTGTAATGTTTGGACAAACAGATGATATTACTTTGCTATAAA
ATTATAAATGTAACTTTTAATAAAGATAGCCAGAATATTCTAAATTAGAAATTACGTTTTTGTTTCCCTCAAGAC
ATAAAACAAATATAAACATTCTAAACTGCTGGATGAATCTGAAAAGACATTAAGTTCAAATTTTAATTTATTCTC
ATATTAAATATAACTCCATTAAAAGTTTAAAATTTCATGGGAGAAAATATAATAAGGTAAAGAGGTAGAATCACT
TTCAGACTTAAGAATAATGTTGATTTCCCAAGTGCTTTACCTTATCTGTTAAAGCGTAAGATGAATTGGTATTTG
CTTCATAGGCAGTTTGACTGCATGTATTAGAGAATGAAAAGAAGATATTTGTAGTAATGCCTGGAAACTTGGTGC
TTTAAATTAAGGTACTCCTCTGCTGCTGTAGAATGGATTCCACACAGTGGATAGCTATGGGTGATTCAGAATATT
ATGTTTAGATTCCCATTTGTTAAGTTTATAAGTTTTGTGGGGAATTATGAACTTACTGTGTACTACCTGCATTTG
TGCTGTGTGAAAAATAAATACAAGGATTCGTTTAGCTAA

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FIGURE 3705

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GTGAGCGCCGGGCTCGGGGCCCCCCGGCCGCCAGCCCCTTCCCTTCCCTCCATCCCATCCCCTCCCCTCCCCCC
CGGGCCCCGCGCCCCCCCCGCCCCCGCCCCCCCCATGGACATGCTGGACCCGGGTCTGGATCCCGCTGCCTCGGC
CACCGCTGCTGCCGCCGCCAGCCACGACAAGGGACCCGAGGCGGAGGAGGGCGTCGAGCTGCAGGAAGGCGGGGA
CGGCCCAGGAGCGGAGGAGCAGACAGCGGTGGCCATCACCAGCGTCCAGCAGGCGGCGTTCGGCGACCACAACAT
CCAGTACCAGTTCCGCACAGAGACAAATGGAGGACAGGCTGTGATCCAAAATCCCTTCAGCAATGGTGGCAGTCC
GGCGGCCGAGGCTGTCAGCGGGGAGGCACGATTTGCCTATTTCCCAGCGTCCAGTGTGGGAGATACTACGGCTGT
GTCCGTACAGACCACAGACCAGAGCTTGCAGGCTGGAGGCCAGTTCTACGTCATGATGACGCCCCAGGATGTGCT
TCAGACAGGAACACAGAGGACGATCGCCCCCCGGACACACCCTTACTCTCCAAAAATTGATGGAACCAGAACACC
CCGAGATGAGAGGAGAAGAGCCCAGCACAACGAAGTGGAGCGGAGGCGGAGGGACAAGATCAACAACTGGATCGT
CCAGCTTTCGAAAATCATTCCAGACTGTAACGCAGACAACAGCAAGACGGGAGCGAGTAAAGGAGGGATCCTGTC
CAAGGCCTGCGATTACATCCGGGAGTTGCGCCAGACCAACCAGCGCATGCAGGAGACCTTCAAAGAGGCCGAGCG
GCTGCAGATGGACAACGAGCTCCTGAGGCAGCAGATCGAGGAGCTGAAGAATGAGAACGCCCTGCTTCGAGCCCA
GCTGCAGCAGCACAACCTGGAGATGGTGGGCGAGGGCACCCGGCAGTGACGCCCGCCACCACCACGCAGCCGCCG
CCGCCCACGCCGGCCTCTGCTGCCCCCTTCCCCAGCCCTTAGCACAGAGAGGGACACATGCCCCTCCCCCAGCTG
CGTTTTTTTATAGTAGATTTTTAACAAAAAACGGGGAGAAATAATGCATTTCTGTGGATACAGTGCCCACCGCCC
TCCTCCACTTGGAAACGGTATCCTCCCTGCCCATCCGTCTGTCTGTCGCCCTTCTCCCGGCCCTCACTAAGCCCC
GGCACTTCTAGTGGTCTCACCTGGAGGCAAGAGGGAGGGGACAGAGGCCCTGCCACGTCCCGCTGCCTCCTGCTC
TCTGGAGGTACTGAGACAGGGTGCTGATGGGAAGGAGGGGAGCCTTTGGGGGGCCACCCGGGGCCTGGACCTATG
CAGGGAGGCCACGTCCCACCCCACCTCTTGTTTCTGGGTCCCTGCTCCCCTTTGGGGGTGTGTGTGTGTGTTTTA
ATTTTCTTTATGGAAAAATTGAC
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FIGURE 3706

MDMLDPGLDPAASATAAAAASHDKGPEAEEGVELQEGGDGPGAEEQTAVAITSVQQAAFGDHNIQYQFRTETNGG
QAVIQNPFSNGGSPAAEAVSGEARFAYFPASSVGDTTAVSVQTTDQSLQAGGQFYVMMTPQDVLQTGTQRTIAPR
THPYSPKIDGTRTPRDERRRAQHNEVERRRRDKINNWIVQLSKIIPDCNADNSKTGASKGGILSKACDYIRELRQ
TNQRMQETFKEAERLQMDNELLRQQIEELKNENALLRAQLQQHNLEMVGEGTRQ

FIGURE 3707

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CGATTGTTGGTGACAGCGAAAGAACGATAACAAAATGCCGGAGCGAGATAGTGAGCCGTTCTCCAACCCTTTGGC
CCCCGATGGCCACGATGTGGATGATCCTCACTCCTTCCACCAATCAAAACTCACCAATGAAGACTTCAGGAAACT
TCTCATGACCCCCAGGGCTGCACCTACCTCTGCACCACCTTCTAAGTCACGTCACCATGAGATGCCAAGGGAGTA
CAATGAGGATGAAGACCCAGCTGCACGAAGGAGGAAAAAGAAAAGTTATTATGCCAAGCTACGCCAACAAGAAAT
TGAGAGAGAGAGAGAGCTAGCAGAGAAGTACCGGGATCGTGCCAAGGAACGGAGAGATGGAGTGAACAAAGATTA
TGAAGAAACCGAGCTTATCAGCACCACAGCTAACTATAGGGCTGTTGGCCCCACTGCTGAGGCGGACAAATCAGC
TGCAGAGAAGAGAAGACAGTTGATCCAGGAGTCCAAATTCTTGGGTGGTGACATGGAACACACCCATTGGTGAA
AGGCTTGGATTTTGCTCTGCTTCAAAAGGTACGAGCTGAGATTGCCAGCAAAGAGAAAGAGGAAGAGGAACTGAT
GGAAAAGCCCCAGAAAGAAACCAAGAAAGATGAGGATCCTGAAAATAAAATTGAATTTAAAACACGTCTGGGCCG
CAATGTTTACCGAATGCTTTTTAAGAGCAAAGCATATGAGCGGAATGAGTTGTTCCTGCCGGGCCGCATGGCTAG
TGTGGTAGACCTGGATGATGAGTATGCTGACACAGATATCCCCACCACTCTTATCCGCAGCAAGGCTGATTGCCC
CACCATGGAGGCCCAGACCACACTGACCACAAATGACATTGTCATTAGCAAGCTGACCCAGATCCTTTCATACCT
GAGGCAGGGAACCCGTAACAAGAAGCTTAAGAAGAAGGATAAAGGGAAGCTGGAAGAGAAGAAACCTCCTGAGGC
TGACATGAATATTTTTGAAGACATTGGGGATTACGTACCCTCCACAACCAAGACACCTCGGGACAAGGAGCGGGA
GAGATATCGGGAACGGGAGCGTGATCGGGAAAGAGACAGAGACCGTGACCGAGAGCGAGAGCGAGAACGAGATCG
GGAACGAGAGCGAGAGCGGGACCGAGAGAGAGAAGAGGAAAAGAAGAGACACAGCTACTTTGAGAAGCCAAAAGT
AGATGATGAGCCCATGGACGTTGACAAAGGACCTGGGTCTACCAAGGAGTTGATCAAGTCCATCAATGAAAAGTT
TGCTGGGTCTGCTGGCTGGGAAGGCACAGAATCGCTGAAGAAGCCAGAAGACAAAAAGCAGCTGGGAGATTTCTT
TGGCATGTCCAACAGTTATGCAGAGTGCTACCCAGCCACGATGGATGACATGGCTGTGGATAGTGATGAGGAGGT
GGATTATAGCAAAATGGACCAGGGTAACAAGAAGGGGCCCTTAGGCCGTTGGGACTTTGATACCCAGGAAGAATA
CAGCGAGTATATGAACAACAAAGAAGCTTTGCCCAAGGCTGCATTCCAGTATGGTATCAAAATGTCTGAAGGGCG
GAAAACCAGGCGCTTCAAGGAAACCAATGACAAAGCAGAGCTTGATCGCCAGTGGAAGAAGATTAGTGCAATCAT
TGAGAAGAGGAAGAAGATGGAAGCTGATGGGGGTTGAAGTCAAAAGACCAAAATACTAATCACTAGTTACAACCAG
AGATGCTCCACAAGGATATGCTCCCCACTGTTTTCTTTCTACAATTTCCAAAGGTTGCAAGATGTTTTTTTGTGG
ATGAATATAAAATTTTATTGTGTAATTACTTGGTTCCATTAAAATTGGTTAACTTGC
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FIGURE 3708

GCTGGATGGGGAGAGCTGTATGGACGCTCAGGCTACAACTATTTTTTCTCAGGGGGTGCAGATGATGCCTGGGCA
GATGTGGAGGACGTCACGGAGGAGGACTGTGCTCTTCGAAGTGGTGACACGCATCTTTTTGATAAGGTCAGAGGC
TATGACATCAAGCTGCTTCGATACCTGTCAGTCAAATACATCTGTGACCTGATGGTGGAGAACAAGAAGGTGAAG
TTTGGCATGAATGTAACCTCCTCTGAGAAGGTGGACAAAGCCCAGCGCTATGCCGACTTCACTCTCCTCTCCATC
CCGTATCCAGGCTGTGAATTTTTCAAGGAATATAAAGATCGGGATTACATGGCAGAAGGGCTCATATTTAACTGG
AAGCAGGACTACGTTGATGCCCCATTGAGCATCCCCGACTTCCTGACTCACTCTCTGAACATTGACTGGAGCCAG
TATCAGTGTTGGGATCTGGTGCAACAAACACAAAACTACCTGAAGCTGCTGCTTTCCTTAGTTAACAGTGATGAT
GACAGCGGGCTGCTGGTACACTGTATCTCAGGCTGGGATCGGACCCCCCTCTTCATCTCCCTCCTGCGCCTTTCC
TTGTGGGCTGATGGGCTCATCCACACGTCCCTGAAGCCCACTGAGATCCTCTACCTCACTGTGGCCTATGACTGG
TTCCTCTTCGGGCACATGTTGGTAGATCGGCTCAGCAAAGGGGAGGAGATTTTCTTCTTCTGCTTCAATTTTTTG
AAGCATATTACCTCCGAGGAGTTCTCTGCTCTGAAGACCCAGAGGAGGAAGAGTTTGCCAGCCCGGGATGGAGGC
TTCACCCTGGAAGACATCTGCATGCTGAGACGAAAGGACCGTGGCAGCACCACCAGCCTTGGCAGCGACTTCTCC
CTGGTCATGGAGAGTTCCCCAGGAGCCACTGGGAGCTTCACCTATGAGGCCGTGGAGCTGGTCCCAGCAGGAGCG
CCAACTCAGGCAGCTTGGCTTGCAGCCCTGAGTGATCGAGAGACTCGCTGCAGGAGGTGCGCTCAGCCTTCTTGG
CTGCGTACAGCAGCACAGTGGGGCTTCGGGCAG**TAG**CCCCAGTCCTTCCGGTGCCATCGGGGGCCTGCTGGAGC
AATTTGCCCGTGGTGTTGGACTCCGGAGCATCAGCAGCAATGCCTTGTGAAGAAGCCAGCCCATGACATTTTCCT
GCTCCTCTCTCAGCTGAGCCCTTAGCAGAGAATCAAAGCCATGCCTGGCCGAAGGGGTACTTCCAGGTCAGGGGA
AATTTCAGTCCCCCATCTCCATCATGAACATGGCAGCCCCAAAGCTGAGCAAGGCCAAAGACAGGGTTTTCCAAC
CCCCAGCCTCTTGACTGGTGACCACCACCCCTTCTTGTCACTGTCTCCCACCCACCCCATCTTTGCTGGGATTCC
CATCAACTCTCAGAACTGTGTGGGGTTTCCCTGGGGCCTTGTGGAAGCCATGACTTCACAAAGACCCTACCTGTC
AGTTCTTGTTTCTGGGGAGGAGGGATCACCTGCACTGAGAATGAGGCAGTTTGACACAGATCACAAAATAAAATC
AAAGTCTTTTTG

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FIGURE 3709

MVENKKVKFGMNVTSSEKVDKAQRYADFTLLSIPYPGCEFFKEYKDRDYMAEGLIFNWKQDYVDAPLSIPDFLTH
SLNIDWSQYQCWDLVQQTQNYLKLLLSLVNSDDDSGLLVHCISGWDRTPLFISLLRLSLWADGLIHTSLKPTEIL
YLTVAYDWFLFGHMLVDRLSKGEEIFFFCFNFLKHITSEEFSALKTQRRKSLPARDGGFTLEDICMLRRKDRGST
TSLGSDFSLVMESSPGATGSFTYEAVELVPAGAPTQAAWLAALSDRETRCRRCAQPSWLRTAAQWGFGQ

4022/6881
FIGURE 3710

ACGAGAAGTAGTCGTTTATGCTCCACTTTCAAAGAAGCAGGAGATCTTTTATACAGCCATTGTGAACCGTACAAT
TGCAAAC**ATG**TTTGGATCCAGTGAGAAAGAAACAATTGAGTTAAGTCCTACTGGTCGACCAAAACGACGAACTAG
AAAATCAATAAATTACAGCAAAATAGATGATTTCCCTAATGAATTGGAAAAACTGATCAGTCAAATACAGCCAGA
GGTGGACCGAGAAAGAGCTGTTGTGGAAGTGAATATCCCTGTAGAATCTGAAGTTAATCTGAAGCTGCAGAATAT
AATGATGCTACTTCGTAAATGTTGTAATCATCCATATTTGATTGAATATCCTATAGACCCTGTTACACAAGAATT
TAAGATCGATGAAGAATTGGTAACAAATTCTGGGAAGTTCTTGATTTTGGATCGAATGCTGCCAGAACTAAAAAA
AAGAGGTCACAAGGTGCTGCTTTTTTCACAAATGACAAGCATGTTGGACATTTTGATGGATTACTGCCATCTCAG
AGATTTCAACTTCAGCAGGCTTGATGGGTCCATGTCTTACTCAGAGAGAGAAAAAAACATGCACAGCTTCAACAC
GGATCCAGAGGTGTTTATCTTCTTAGTGAGTACACGAGCTGGTGGCCTGGGCATTAATCTGACTGCAGCAGATAC
AGTTATCATTTATGATAGTGATTGGAACCCCCAGTCGGATCTTCAGGCCCAGGATAGATGTCATAGAATTGGTCA
GACAAAGCCAGTTGTTGTTTATCGCCTTGTTACAGCAAATACTATCGATCAGAAAATTGTGGAAAGAGCAGCTGC
TAAAAGGAAACTGGAAAAGTTGATCATCCATAAAAATCATTTCAAAGGTGGTCAGTCTGGATTAAATCTGTCTAA
GAATTTCTTAGATCCTAAGGAATTAATGGAATTATTAAAATCTAGAGATTATGAAAGGGAAATAAAAGGATCAAG
AGAGAAGGTCATTAGTGATAAAGATCTAGAGTTGTTGTTAGATCGAAGTGATCTTATTGATCAAATGAATGCTTC
AGGACCAATTAAAGAGAAGATGGGGATATTCAAGATATTAGAAAATTCTGAAGATTCCAGTCCTGAATGTTTGTT
TTAAAGTGGAGCTCAAGAATAGCTTTTAAAAGTTCTTATTTACATCTAGTGATTTCCCTGTATTGGGTTTGAAAT
ACTGATTGTCCACTTCACCTTTTTTATTATATCAGTTGACATGTAACTAGTACCATGCGTACTTAAATAGATGGT
AATTTTCTGAGCCTTACCAAGAACAAAGAAGTATCCATATTAAGTTTAGATTTTCAGTTAATTTTTGAGACTGAG
TAGTATTCTTGGATACAGGCTGATGTGTACTTAACCACTTCCAGATTTATACAGTCTTCCTGTGGAAGTTTAGTA
AATGTCTTTTTCCCTCCTTTCTTCTAGTAATGCAGTTCATGGGCTTTAGGTACTTCAGTTATGAAGTAGGCTTTT
CATGGGGAGAGATTGGGATTATGCTCTCTGTTGTTTAAGAAACTGTTTGATTTTAGAGTCTATTTCTATGAGATA
GTTTACCAAATAAATGTTCCTTATAAG

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FIGURE 3711

MFGSSEKETIELSPTGRPKRRTRKSINYSKIDDFPNELEKLISQIQPEVDRERAVVEVNIPVESEVNLKLQNIMM
LLRKCCNHPYLIEYPIDPVTQEFKIDEELVTNSGKFLILDRMLPELKKRGHKVLLFSQMTSMLDILMDYCHLRDF
NFSRLDGSMSYSEREKNMHSFNTDPEVFIFLVSTRAGGLGINLTAADTVIIYDSDWNPQSDLQAQDRCHRIGQTK
PVVVYRLVTANTIDQKIVERAAAKRKLEKLIIHKNHFKGGQSGLNLSKNFLDPKELMELLKSRDYEREIKGSREK
VISDKDLELLLDRSDLIDQMNASGPIKEKMGIFKILENSEDSSPECLF

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FIGURE 3712

ACTTCCGGTCGGCGTGAGCGTGAGGTGTGGGTGTTCGTTTCTCAGGTAAAAC<u>ATG</u>GCTAAAAGCTTACGGAGTAA
GTGGAAAAGAAAGATGCGTGCTGAAAAGAGAAAAAAGAATGCCCCAAAGGAGGCCAGCAGGCTTAAAAGTATTCT
CAAACTAGACGGTGATGTTTTAATGAAAGATGTTCAAGAGATAGCAACTGTGGTGGTACCCAAACCCAAACATTG
CCAAGAGAAAATGCAATGTGAGGTAAAAGATGAAAAAGATGACATGAAAATGGAGACTGATATTAAGAGAAACAA
AAAGACTCTTCTAGACCAGCATGGACAGTACCCAATATGGATGAACCAAAGGCAAAGAAAAAGGCTGAAGGCAAA
GCGAGAGAAAGAAAGGGGAAAAGCAAAGCAAAGCAGTGAAAGTGGCAAAGGGTTTGGCCTGG<u>TAG</u>ACTCTTAA
AACCTTGGAAAATGCCACATGGGATAGATGACGGATTAGAATGTATACACATGTATACTTTGATTCAACTGCCA
CCAAATGAAAACCATTTGTTTTCCTATTTTAACTTGGCCTTTTTTCTTCAATTCAAACCCAGCATAACTCCTCAA
GTTTGTTTTGGGAACTTGAATAAAATATTTTCTTTGATACATCCAGCTCTACTGATACTTTAACTGGATGCTAC
CCAATATCCAGTTATAATCAGGCCTCAACGTTCTGTCAGGTATTAATATGGTTAGAATTGTTCTTACAACTGGTA
ATTATAGTCAATAGAGATAAAACAGATGATGTACTGACAAATTTTTGTGAACTTAGATTTTAAAGAAAGTTGTTG
TATAATCATATCATTTAAAAATACTACATTAGGGCTGGGCATGGTGGCTCACACCTGTAATCCCAGCACTTTGGG
AGGCCGAGGCAGGTGGATCACGAGGTCAGTTCGAGACTAGCCTGGCTAATACAGTGAAACCCCATCTCTACTAAA
AATACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

4025/6881
FIGURE 3713

MAKSLRSKWKRKMRAEKRKKNAPKEASRLKSILKLDGDVLMKDVQEIATVVVPKPKHCQEKMQCEVKDEKDDMKM
ETDIKRNKKTLLDQHGQYPIWMNQRQRKRLKAKREKRKGKSKAKAVKVAKGLAW

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FIGURE 3714A

GGGAGCGAGTGCGGAGCGAGTGGGAGCGAGACGGCCCTGAGTGGAAGTGTCTGGCTCCCCGTAGAGGCCCTTCTG
TACGCCCCGCCGCCCATGAGCTCGTTCTCACGCGAACAGCGCCGTCGTTAGGCTGGCTCTGTAGCCTCGGCTTAC
CCCGGGACAGGCCCACGCCTCGCCAGGGAGGGGGCAGCCCGTCGAGGCGCCTCCCTAGTCAGCGTCGGCGTCGCG
CTGCGACCCTGGAAGCGGGAGCCGCCGCGAGCGAGAGGAGGAGCTCCAGTGGCGGCGGCGGCGGCGGCAGCGGCA
GCGGGCAGCAGCTCCAGCAGCGCCAGCAGGCGGGATCGAGGCCGTCAACATGGCGAGCGCCTCGTACCACATTTC
CAATTTGCTGGAAAAAATGACATCCAGCGACAAGGACTTTAGGTTTATGGCTACAAATGATTTGATGACGGAACT
GCAGAAAGATTCCATCAAGTTGGATGATGATAGTGAAAGGAAAGTAGTGAAAATGATTTTGAAGTTATTGGAAGA
TAAAAATGGAGAGGTACAGAATTTAGCTGTCAAATGTCTTGGTCCTTTAGTGAGTAAAGTGAAAGAATACCAAGT
AGAGACAATTGTAGATACCCTCTGCACTAACATGCTTTCTGATAAAGAACAACTTCGAGACATTTCAAGTATTGG
TCTTAAAACAGTAATTGGAGAACTTCCTCCAGCTTCCAGTGGCTCTGCATTAGCTGCTAATGTATGTAAAAAGAT
TACTGGACGTCTTACAAGTGCAATAGCAAACAGGAAGATGTCTCTGTTCAGCTAGAAGCCTTGGATATTATGGC
TGATATGTTGAGCAGGCAAGGAGGACTTCTTGTTAATTTCCATCCTTCAATTCTGACCTGTCTACTTCCCCAGTT
GACCAGCCCTAGACTTGCAGTGAGGAAAAGAACCATTATCGCTCTTGGCCATCTGGTTATGAGCTGTGGAAATAT
AGTTTTTGTAGATCTTATTGAACATCTGTTGTCAGAGTTGTCCAAAAATGATTCTATGTCAACAACAAGAACCTA
CATACAATGTATTGCTGCTATTAGTAGGCAAGCTGGTCATAGAATAGGTGAATACCTTGAGAAGATAATTCCTTT
GGTGGTAAAATTTTGCAATGTAGATGATGATGAATTAAGAGAGTACTGTATTCAAGCCTTTGAATCATTTGTAAG
AAGATGTCCTAAGGAAGTATATCCTCATGTTTCTACCATTATAAATATTTGTCTTAAATATCTTACCTATGATCC
AAATTATAATTACGATGATGAAGATGAAGATGAAAATGCAATGGATGCTGATGGTGGTGATGATGATGATCAAGG
GAGTGATGATGAATACAGTGATGATGATGACATGAGTTGGAAAGTGAGACGTGCAGCTGCGAAGTGCTTGGATGC
TGTAGTTAGCACAAGGCATGAAATGCTTCCAGAATTCTACAAGACCGTCTCTCCTGCACTAATATCCAGATTTAA
AGAGCGTGAAGAGAATGTAAAGGCAGATGTTTTTCACGCATACCTTTCTCTTTTGAAGCAAACTCGTCCTGTACA
AAGTTGGCTATGTGACCCTGATGCAATGGAGCAGGGAGAAACACCTTTAACAATGCTTCAGAGTCAGGTTCCCAA
CATTGTTAAAGCTCTTCACAAACAGATGAAAGAAAAAAGTGTGAAGACCCGACAGTGTTGTTTTAACATGTTAAC
TGAGCTGGTAAATGTATTACCTGGGGCCCTAACTCAACACATTCCTGTACTTGTACCAGGAATCATTTTCTCACT
GAATGATAAATCAAGCTCATCGAATTTGAAGATCGATGCTTTGTCATGTCTATACGTAATCCTCTGTAACCATTC
TCCTCAAGTCTTCCATCCTCACGTTCAGGCTTTGGTTCCTCCAGTGGTGGCTTGTGTTGGAGACCCATTTTACAA
AATTACATCTGAAGCACTTCTTGTTACTCAACAGCTTGTCAAAGTAATTCGTCCTTTAGATCAGCCTTCCTCGTT
TGATGCAACTCCTTATATCAAAGATCTATTTACCTGTACCATTAAGAGATTAAAAGCAGCTGACATTGATCAGGA
AGTCAAGGAAAGGGCTATTTCCTGTATGGGACAAATTATTTGCAACCTTGGAGACAATTTGGGTTCTGACTTGCC
TAATACACTTCAGATTTTCTTGGAGAGACTAAAGAATGAAATTACCAGGTTAACTACAGTAAAGGCATTGACACT
GATTGCTGGGTCACCTTTGAAGATAGATTTGAGGCCTGTTCTGGGAGAAGGGGTTCCTATCCTTGCTTCATTTCT
TAGAAAAAACCAGAGAGCTTTGAAACTGGGTACTCTTTCTGCCCTTGATATTCTAATAAAAAACTATAGTGACAG
CTTGACAGCTGCCATGATTGATGCAGTTCTAGATGAGCTCCCACCTCTTATCAGCGAAAGTGATATGCATGTTTC
ACAAATGGCCATCAGTTTTCTTACCACTTTGGCAAAAGTATATCCCTCCTCCCTTTCAAAGATAAGTGGATCCAT
TCTCAATGAACTTATTGGACTTGTGAGATCACCCTTATTGCAGGGGGGAGCTCTTAGTGCCATGCTAGACTTTTT
CCAAGCTCTGGTTGTCACTGGAACAAATAATTTAGGATACATGGATTTGTTGCGCATGCTGACTGGTCCAGTTTA
CTCTCAGAGCACAGCTCTTACTCATAAGCAGTCTTATTATTCCATTGCCAAATGTGTAGCTGCCCTTACTCGAGC
ATGCCCTAAAGAGGGACCAGCTGTAGTAGGTCAGTTTATTCAAGATGTCAAGAACTCAAGGTCTACAGATTCCAT
TCGTCTCTTAGCTCTACTTTCTCTTGGAGAAGTTGGGCATCATATTGACTTAAGTGGACAGTTGGAACTAAAATC
TGTAATACTAGAAGCTTTCTCATCTCCTAGTGAAGAAGTCAAATCAGCTGCATCCTATGCATTAGGCAGCATTAG
TGTGGGCAACCTTCCTGAATATCTGCCGTTTGTCCTGCAAGAAATAACTAGTCAACCCAAAAGGCAGTATCTTTT
ACTTCATTCCTTGAAGGAAATTATTAGCTCTGCATCAGTGGTGGGCCTTAAACCATATGTTGAAAACATCTGGGC
CTTATTACTAAAGCACTGTGAGTGTGCAGAGGAAGGAACCAGAAATGTTGTTGCTGAATGTCTAGGAAAACTCAC
TCTAATTGATCCAGAAACTCTCCTTCCACGGCTTAAGGGGTACTTGATATCAGGCTCATCATATGCCCGAAGCTC
AGTGGTTACGGCTGTGAAATTTACAATTTCTGACCATCCACAACCTATTGATCCACTGTTAAAGAACTGCATAGG
TGATTTCCTAAAAACTTTGGAAGACCCAGATTTGAATGTGAGAAGAGTAGCCTTGGTCACATTTAATTCAGCAGC
ACATAACAAGCCATCATTAATAAGGGATCTATTGGATACTGTTCTTCCACATCTTTACAATGAAACAAAAGTTAG
AAAGGAGCTTATAAGAGAGGTAGAAATGGGTCCATTTAAACATACGGTTGATGATGGTCTGGATATTAGAAAGGC

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FIGURE 3714B

AGCATTTGAGTGTATGTACACACTTCTAGACAGTTGTCTTGATAGACTTGATATCTTTGAATTTCTAAATCATGT
TGAAGATGGTTTGAAGGACCATTATGATATTAAGATGCTGACATTTTTAATGTTGGTGAGACTGTCTACCCTTTG
TCCAAGTGCAGTACTGCAGAGGTTGGACCGACTTGTTGAGCCATTACGTGCAACATGTACAACTAAGGTAAAGGC
AAACTCAGTAAAGCAGGAGTTTGAAAAACAAGATGAATTAAAGCGATCTGCCATGAGAGCAGTAGCAGCACTGCT
AACCATTCCAGAAGCAGAGAAGAGTCCACTGATGAGTGAATTCCAGTCACAGATCAGTTCTAACCCTGAGCTGGC
GGCTATCTTTGAAAGTATCCAGAAAGATTCATCATCTACTAACTTGGAATCAATGGACACTAGTTAGATGTTTGT
TCACCATGGGGACCATTACATATGACCATACAATGCACTGAATTGACAGGTTAATCATAAGACATGGAAAGAGAA
GTGTCTAAAAGCTTCAAAATGTTCCACTTTTTTTTCCTTCATGGAGACTGTTTGTTTGGCTTTCTTCCATTGTTG
TTTTTGTAGCATTTATTTCAGAAATGTGTATTTCCATAATCCAGAGGTTGTAAAACCACTAGTGTTTTAGTGGTT
ACAGCAACATTTGAAATGGAAACTAAAAGTTAGGATTTTATGGAGTATGGAGATAGGGTCCAGTATCTATTTACC
CTGTAATGTTTAGGATTAAAATGTTAAAATTTTGTGACCATGAATTTCTTTCTTTTATAAATTTTCTCATTTAAA
AATCAAAAATCTTGCAAAACAAAAACCATGTTTCTTTTTCTTGTATAACTTTTTGTTTTCAGCAACATAAATTGA
TTTTTAGCTGGCAGACAAGAATATCCATATAAGATTTGTTAACCATTTCAGAGAGTTTGGCAATTTTTAAAAGAT
AATAAGGTATCATTTTTAAGTATGAAAATTAACAATATCCCTGTTGCGCACACTAATTTTGCATGAGTAAGTTTA
CAAATATGTATCGTCTGTAAAGCAGCATGTGCAGATTATTCATAATATAGAAGTTAAAATAAGTATTAGTGCAAT
TTTCAGATATTTATTTTTGCACAGAAAACACATTATCTGGAGAGAAAGAAAGGAGAATTTTTGAGACTTGGGTTT
TCTTAATGCCAGTGTGAATTTGCAGATGTTTTCAGAAAATCAAGTCACAGTAACAATTTGCCACTTTTTTCTATT
ATAAATCTTCTTACTTAAATTTTGAATATTTAGTTTTTCTCAGTTACCCATTTGTGTGTGTGTGATTCCACTTAG
AAATTCTTAAAACCAGATTTTTCTTTCATTCCGTTTGGATGTCTACATTCCTTATCAAAGGATATAAATACTGTG
TATGCTTTTGAATTTTATTTTTAGGAAAATTCTGAAGCCAGCTATCACAGGTTTGTTAGCTAATAATAGTATTTT
CTTTTAGTTGAGTTAGGTTTTTCCCCATCTCCTGTAGAGCGAATTTACATATTGTATTGGGTAAGTGTTCACTAC
TTTTCCTGATTAAGGGATCTGTGCTGGGGAACAAAGCTTTTGCAGTACCTTATATTGTAGTTAAAATTTTATTTA
ACATATCCTTCAGTGAGCTCATTTCACACTGTAGCCTCTTCCTTAAAATTTGTGGTGCTCCTGTAACAGTAAGAA
CTAATTCTGAAATAAAAGACATCTCCTAATGCTGTGCAAACATAGTTTACATGTATTGAAGGAGGCAGTTGTTAA
ATTGAGTGACCAATTTAAGCAATCAGATATTTGAAAACTGCACCCTTTAGTTTTGAAACTGTGAATTAGAAACAC
TTTTCCTGCTGTATTACTACCTGCTTTAACATCCAAATATACAGTGATTTAAATGATAACATACTGTGGTTATT
AGATTAACAGCTTGATTTTGAATGTTCAGATGATAATGCAGAAGACATCACTTCTAGTAAGGATTTTGACTAGTG
CATTGATGTTGAAGTTGGTGCCATTTCAAAATGTGGCAGGTGATAATCTTTTACCATAATTTGCATAAAACTGTA
ATAGAAGTTTATTTTGAGATGTTAGTATATTATGTACTATGCATTTCTGTGGTATAGATGTTGTGGATATATTTA
AGTATTTGGTTACATGGTTTTACAATAAATTACAATACTGCAGGC

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FIGURE 3715

CTGGCTTACAGGGCGGCGGCGGGGTGTGTGTCCTCTGTTAAGAGTGCTACTCGCCCGGGGTTGATCTGTGCATGC
CACTCCTGGGTCAGACGGTGAGGTCGGCGTCTGCGAGGACGCGGCGGTGGAGTAGAAGGGCAGCCGGAGACAGGC
CCGGCGCCCCTTCCGAGGCTAGACGGCCCCAGCTTCGCGGGGATCATGGCATTGCTGGTGGACCGAGTGCGGGGC
CACTGGCGAATCGCCGCCGGGCTCCTGTTCAACCTGCTGGTGTCCATCTGCATTGTGTTCCTCAACAAATGGATT
TATGTGTACCACGGCTTCCCCAACATGAGCCTGACCCTGGTGCACTTCGTGGTCACCTGGCTGGGCTTGTATATC
TGCCAGAAGCTGGACATCTTTGCCCCCAAAAGTCTGCCGCCCTCCAGGCTCCTCCTCCTGGCCCTCAGCTTCTGT
GGCTTTGTGGTCTTCACTAACCTTTCTCTGCAGAACAACACCATAGGCACCTATCAGCTGGCCAAGGCCATGACC
ACGCCGGTGATCATAGCCATCCAGACCTTCTGCTACCAGAAAACCTTCTCCACCAGAATCCAGCTCACGCTGATT
CCTATAACTTTAGGTGTAATCCTAAATTCTTATTACGATGTGAAGTTTAATTTCCTTGGAATGGTGTTTGCTGCT
CTTGGTGTTTTAGTTACATCCCTTTATCAAGTGTGGGTAGGAGCCAAACAGCATGAATTACAAGTGAACTCAATG
CAGCTGCTGTACTACCAGGCTCCGATGTCATCTGCCATGTTGCTGGTTGCTGTGCCCTTCTTTGAGCCAGTGTTT
GGAGAAGGAGGAATATTTGGTCCCTGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXCTATAACATGTTCGGACACTTCAAG
TTCTGCATTACTTTATTCGGAGGATATGTTTTATTTAAGGATCCACTGTCCATTAATCAGGCCCTTGGCATTTTA
TGTACATTATTTGGCATTCTCGCCTATACCCACTTTAAGCTCAGTGAACAGGAAGGAAGTAGGAGTAAACTGGCA
CAACGTCCTTAATTGGGTTTTTGTGGAGAAAAGAATGTTGTCCCAAGAAGATAAAAAATATTGTTAAGTGTGCAA
GTTATTAAAAAAAAAAAATTGGGCCAGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCC
AGCGGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGACCAACATGGAGAAACCCTGTCTCAACTAATAATACA
AAATTAGCCAGGCGTGGTGGCGCATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTGAAC
CCGGGAGGCGGCGGTTGCAGTGAGCCGAGATCGTACCATTGCACTCCAGCCTGGGCAACAAGAGCGAAACTCCAT
TTCAAAAAAAAAAAATTGGTGACAGACTCAATGATGGAATGATTTGTCGGAATTAACACAAAGCAGATTTTATTC
ATATAATGACTTTTTTTAAGAGTCTCTTTTTAAAAAAACTTAATTCTCTAAAACCGAAATGGTTCATGCTTCT
TTTTAAAAATGATTGTATAAAATGTATGGAATGGTTAGCCTGGTGTGGTGGTGCACACCTGTAATCCCAGCTACT
TGGGAGACTGAGACATGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCAATGAGCCAAGATCGTACCACTGCAC
TCCAGCCTGGGCGACAGAGCAAGACACTGTCTCTCTCTCTCTCCATATATATATGTGTGTGTGTGTATATATA
TATATATGTGTGTGTGTGTGTGTATACATATATACACATATATACACACACACATACATATACATGTGTATAT
ATATACCATCCCATATATATGTGGGATATATATATATATATATGGATATGGTTATATATATGGGAATGGTTTG
GGGTTGGTCCCAGCTGAGTATAGACAATTAAATTACGTGATAA

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FIGURE 3716

MQLLYYQAPMSSAMLLVAVPFFEPVFGEGGIFGPWSVSALLMVLLSGVIAFMVNLSIYWIIGNTSPVTYNMFGHF
KFCITLFGGYVLFKDPLSINQALGILCTLFGILAYTHFKLSEQEGSRSKLAQRP

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FIGURE 3717

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GTTTTAGGGACAGACTGCTTCCGGGTCGAAGGGCTTGCTTCCGGAGAGCGGGAAGGCTAAAACGCGGTAGCTAAA
CTGCAGCCAACTTTGGTTGTGTGTGGAAAAGGCTTTAGCCATGGACAGGAGTGGCTTTGGAGAGATATCATCCCC
TGTAATCCGGGAGGCAGAGGTGACACGGACTGCACGGAAACAGAGTGCTCAGAAAAGAGTTTTACTTCAGGCATC
TCAAGATGAAAATTTTGGTAATACTACACCAAGAAACCAGGTTATCCCTCGAACTCCTAGCTCATTTCGACAGCC
TTTTACCCCAACAAGCCGAAGCTTACTAAGGCAGCCAGATATTTCCTGCATTCTTGGAACAGGAGGGAAGTCGCC
CCGACTTACGCAGTCTTCAGGGTTCTTTGGAAATCTCTCCATGGTTACTAATCTGGATGACAGTAACTGGGCAGC
TGCATTTTCATCACAGCGTTCCGGGCTGTTCACAAACACAGAGCCCCACAGTATAACAGAAGATGTAACTATCAG
TGCTGTTATGTTACGTGAGGATGATCCTGGAGAAGCTGCATCCATGAGTATGTTTTCTGATTTCCTGCAGTCTTT
TCTGAAGCACTCTTCGAGTACAGTTTTTGATCTTGTGGAAGAGTATGAAAACATCGTGGTAGTCAGGTGAATAT
ACTGAGTAAAATAGTGAGTCGAGCAACACCTGGACTTCAAAAATTTTCAAAAACAGCCAGTATGCTCTGGCTTCT
TCAACAGGAGATGGTCACATGGAGGCTGCTGGCTTCTTTGTATAGAGACAGAATACAGTCTGCATTAGAAGAGGA
AAGTGTATTCGCAGTTACTGCTGTTAATGCCAGTGAAAAAACAGTTGTGGAAGCGTTATTTCAGAGGGATTCACT
TGTTCGACAAAGTCAGCTGGTGGTAGATTGGTTAGAGAGTATTGCCAAAGATGAAATTGGAGAATTTTCTGATAA
TATTGAGTTTTATGCAAAATCAGTATATTGGGAAAATACTCTGCATACCTTAAAACAACGGCAGCTGACTTCTTA
CGTTGGAAGTGTTCGTCCGCTTGTCACTGAATTGGACCCTGATGCTCCCATAAGACAGAAAATGCCCCTTGATGA
TCTGGATAGAGAAGATGAAGTTAGATTACTCAAATATCTCTTTACTCTAATCCGTGCTGGAATGACAGAAGAGGC
ACAACGACTCTGTAAACGCTGTGGTCAAGCATGGAGAGCTGCAACACTTGAAGGCTGGAAACTGTACCATGACCC
TAATGTTAATGGAGGAACAGAATTAGAACCTGTTGAAGGGAATCCATATAGACGCATTTGGAAAATAAGTTGCTG
GAGAATGGCAGAAGATGAGCTTTTTAATAGATACGAGAGAGCAATTTATGCAGCTTTAAGTGGGAATCTTAAGCA
GCTGCTTCCTGTCTGTGACACCTGGGAAGACACAGTTTGGGCCTACTTCCGGGTGATGGTGGACAGTCTGGTAGA
ACAGGAGATCCAGACATCAGTAGCAACTCTGGATGAAACTGAAGAACTCCCTAGAGAATATCTGGGAGCAAACTG
GACGTTAGAAAAGGTTTTTGAGGAACTTCAAGCTACTGACAAAAAGAGAGTTCTGGAAGAGAATCAAGAACATTA
TCATATAGTTCAAAAGTTTCTTATCCTGGGAGACATTGATGGTTTGATGGATGAGTTTAGCAAATGGCTTTCCAA
AAGCAGAAACAATCTACCTGGACACCTGCTTCGCTTTATGACTCACCTTATTTGTTTTTCCGTACTCTGGGACT
ACAGACCAAGGAGGAAGTTTCTATTGAAGTTTTAAAGACATACATACAGCTTTTAATAAGAGAGAAACATACAAA
TCTTATAGCATTTTATACCTGTCATTTGCCTCAAGACCTAGCTGTTGCCCAGTATGCATTATTTTTGGAAAGTGT
TACAGAATTTGAACAGCGCCACCATTGCCTGGAGTTGGCTAAAGAAGCAGATTTGGATGTTGCAACAATAACAAA
AACTGTAGTTGAGAATATTCGAAAGAAAGATAATGGTGAATTAGTCATCATGACCTGGCCCCAGCCCTAGATAC
TGGCACTACTGAGGAGGATCGTTTAAAAAATTGATGTAATTGACTGGTTGGTATTTGACCCAGCGCAGAGGGCAGA
AGCACTGAAACAAGGCAATGCAATTATGAGAAAATTCTTGGCATCAAAAAAGCACGAAGCTGCAAAAGAAGTATT
TGTGAAAATTCCTCAGGATTCTATAGCAGAAATCTATAATCAGTGCGAGGAACAAGGAATGGAAAGTCCACTTCC
TGCTGAAGATGATAATGCTATCCGAGAACATTTGTGCATCAGAGCTTATTTGGAAGCCCATGAAACCTTTAATGA
GTGGTTTAAGCATATGAATTCAGTTCCACAAAAACCTGCTTTGATACCTCAACCAACTTTTACTGAGAAAGTGGC
TCATGAACACAAAGAAAAGAAATATGAAATGGATTTTGGTATTTGGAAAGGGCATTTGGATGCCCTAACTGCTGA
TGTGAAGGAGAAAATGTATAACGTCTTGTTGTTTGTTGATGGAGGGTGGATGGTGGATGTTAGAGAGGATGCCAA
AGAAGACCATGAAAGAACACATCAAATGGTCTTACTGAGAAAGCTTTGTCTGCCAATGTTGTGTTTTCTGCTTCA
TACGATATTGCACAGTACTGGTCAGTATCAGGAATGCCTACAGTTAGCAGATATGGTATCCTCTGAGCGCCACAA
ACTGTACCTGGTATTTCTAAGGAAGAGCTAAGGAAGTTGCTGCAGAAGCTCAGAGAGTCCTCTCTAATGCTCCT
AGACCAGGGACTTGACCCATTAGGGTATGAAATTCAGTTATAGTTTAATCTTTGTAATCTCACTAATTTTCATGA
TAAATGAAGTTTTTAATAAAAATATACTTGTTATTAGTAATTTTTTCTTTTGCATTACCATGTAAAATTTAGACAT
TTGAATTTTGTACTTTTCAGAATATTATCGTGACACTTTCAACATGTAGGGATATCAGCGTTTCTCTGTGTGCTT
GTTAATAAAACTATATAAAAATTAAAATTTTCTGTTTTTACAAAAAAAAAAAAAAA
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FIGURE 3718

MDRSGFGEISSPVIREAEVTRTARKQSAQKRVLLQASQDENFGNTTPRNQVIPRTPSSFRQPFTPTSRSLLRQPD
ISCILGTGGKSPRLTQSSGFFGNLSMVTNLDDSNWAAAFSSQRSGLFTNTEPHSITEDVTISAVMLREDDPGEAA
SMSMFSDFLQSFLKHSSSTVFDLVEEYENICGSQVNILSKIVSRATPGLQKFSKTASMLWLLQQEMVTWRLLASL
YRDRIQSALEEESVFAVTAVNASEKTVVEALFQRDSLVRQSQLVVDWLESIAKDEIGEFSDNIEFYAKSVYWENT
LHTLKQRQLTSYVGSVRPLVTELDPDAPIRQKMPLDDLDREDEVRLLKYLFTLIRAGMTEEAQRLCKRCGQAWRA
ATLEGWKLYHDPNVNGGTELEPVEGNPYRRIWKISCWRMAEDELFNRYERAIYAALSGNLKQLLPVCDTWEDTVW
AYFRVMVDSLVEQEIQTSVATLDETEELPREYLGANWTLEKVFEELQATDKKRVLEENQEHYHIVQKFLILGDID
GLMDEFSKWLSKSRNNLPGHLLRFMTHLILFFRTLGLQTKEEVSIEVLKTYIQLLIREKHTNLIAFYTCHLPQDL
AVAQYALFLESVTEFEQRHHCLELAKEADLDVATITKTVVENIRKKDNGEFSHHDLAPALDTGTTEEDRLKIDVI
DWLVFDPAQRAEALKQGNAIMRKFLASKKHEAAKEVFVKIPQDSIAEIYNQCEEQGMESPLPAEDDNAIREHLCI
RAYLEAHETFNEWFKHMNSVPQKPALIPQPTFTEKVAHEHKEKKYEMDFGIWKGHLDALTADVKEKMYNVLLFVD
GGWMVDVREDAKEDHERTHQMVLLRKLCLPMLCFLLHTILHSTGQYQECLQLADMVSSERHKLYLVFSKEELRKL
LQKLRESSLMLLDQGLDPLGYEIQL

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FIGURE 3719

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CCTTCCAAGTAACTGGGATTACAGGCATGTACCACCATACCAGCTGATTTTTTTGTATTTTTAGTAAAGACAGGG
TTTCACCATGTTAGCCAGGCTGATCTTGAACTCCTAAACTCAAGTGATCTACTCACCTCAGCCTCCCAAAATGCT
GGGATTACAGATGTGAGGCACCTGGCCTCAGATTTTTGATACTCTTAAACCTTCTGATCCTTAGTTTCTCTCTCC
AAAATACTCTTTCTAGGTTAAAAAAAAAAAGGCTCTTATATTTGGTGCTATGTAAATGAAAATGTTTTTTAGGTT
TTCTTGATTTAACAATAGAGACAGGGTCTCCCTGTGTTGCCCAGGCTGGTCTCGAACTCCTGGGCTCAAGAGATC
CTCCTGTCTTGGCCTCGCAAAGTGCTAAGTAGGATTACAGGCGTTAGCCACCACACCCGGCTGTAAAAATGTACT
TATTCTCCAGCCTCTTTTGTATAAACCATAGTAAGGGATGGGAGTAATGATGTTATCTGTGAAAATAGCCACCAT
TTACCCGTAAGACAAAACTTGTTAAAGCCTCCTGAGTCTAACCTAGATTACATCAGGCCCTTTTTCACACACAAA
AAAATCCTTTATGGGATTTAATGGAATCTGTTGTTTCCCCCTAAGTTGAAAAACAACTCTAAGACACTTTAAAGT
ACCTTCTTGGCCTGGGTTACATGGTTCCCAGCCTAGGTTTCAGACTTTTGCTTAAGGCCAGTTTTAGAAACCCGT
GAATTCAGAAAAGTTAATTCAGAAATTTGATAAACAGAATTGTTATTTAAAAACTAACTGGAAAGATTGTTAAGT
TCTTTCTGAATTATTCAGAAATTATGCATCATTTTCCTTCAAGAATGACAGGGTCAGCATGTGGAATTCCAAGAT
ACCTCTTGACTTCCTCTCAAGCTCCGTGTTTGGTCAGTGGAGGCCCATCCGAGCTCAGCACTGAGAAGTGTTAGT
TTCTTTGGGACCCATCTACCCTGACCACATCATGATGTTCATCTGCAGCTGTTGCAAGGTGTTCAGATTGTATAA
ACATAAATGTCACAAAAACTTTAAAAGAAGTGCAATTCTCAAAAGGTTAGGTGGACTAAAGCATTCTGTAAAGCA
ACTGCTAATAATGAGCTTACAGTGGATTTGAATTTGAAAAATATAGTAACAAGCCTGTCAAATATCTGCAAGAAC
TATGGAATAAAACTACTGATGCAGTGAAGACAGTTGAAAAGATCAAACAAATGCCAAGCTATATTTATAATGAAC
AAATTCAAGAAAAAGGACTACGGAAAGTTCAGGCATCAAAGAAGTCAGGCAAAACTCATCTTGACCCCTGTTGC
AGGCAAAGGAACGCAGCTGGAAGAAAAGATGATATAACAGTTAACAGGATGCAGACATGGCAGAGGTTTCCTAAA
AATCTCATTATCTATAACCATTTCTATATTTACATTTGAAAATCTCCTTTGGAGACTTAGAACCTCTAAATTATT
GACTTATTTTTTATATAAGGTCACTCCGATGAAAGGTGATTACAAAATCATCTACATTGCTGTCTACAAAACAGA
TAATATGGATGTTTGATCGCATCTCATTGTTAACTCTTTACTGATATGTTTGTAAATACAGAAGTGAAATGTGG
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FIGURE 3720

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GTAAACCAGCCGGAGCGGCGCGGCAGCGGCAGGACCGCCGTGGCGCCTAGAGTAGCGACCCGGGGGGAGCGCGGG
GCGACGCTGGCTGCAGGGACCCGGTGACAGCGTGAGAGGTTCGCAGAGTACTAGGTTTTGACAAGCTTGCATCAT
GCGTGAGTATAAGCTAGTCGTTCTTGGCTCAGGAGGCGTTGGAAAGTCTGCTTTGACTGTACAATTTGTTCAAGG
AATTTTTGTAGAAAAATACGATCCTACGATAGAAGATTCTTATAGAAAGCAAGTTGAAGTAGATGCACAACAGTG
TATGCTTGAAATCTTGGATACTGCAGGAACGGAGCAATTTACAGCAATGAGGGATTTATACATGAAAAATGGACA
AGGATTTGCATTAGTTTATTCCATCACAGCACAGTCCACATTTAACGATTTACAAGACCTGAGAGAACAGATTCT
TCGAGTTAAAGACACTGATGATGTTCCAATGATTCTTGTTGGTAATAAGTGTGACTTGGAAGATGAAAGAGTTGT
AGGGAAGGAACAAGGTCAAAATCTAGCAAGACAATGGAACAACTGTGCATTCTTAGAATCTTCTGCAAAATCAAA
AATAAATGTTAATGAGATCTTTTATGACCTAGTGCGGCAAATTAACAGAAAAACTCCAGTGCCTGGGAAGGCTCG
CAAAAAGTCATCATGTCAGCTGCTTTAATATACTAAATGCATTGTAGCTCTGAGCCAGGTCTGAAGAACTGTTGC
CCAATTCAACAGTGCCAGCATTCCAACTTTGTTAAACCTACCAACATCTTAAATGGACTTTCCTGTGGTGGTACC
CTTTAAGAGGCGGATGAAAGCTACTATATCAGTTTGCACATTCTAATCACTTTCCAGTATCACAAGAGAGATTTT
TACTTATATAATAGTCCTAGAGTTTGCAGCTGGTAAAACCAGAGGCTACATCCAGTATTACTGCTAAGAGACATT
CTTCATCCACCAATGTTGTACATGTATGAAAATGGTGTACTGTATACTTTAACATGCCCCATACTTTGTATTGGA
GAGTACAATAATGTAAATCCTAAAAGCACCACTATTTTAGCATAATAAAAGAAAGTCCAAAGAGCTCCTATATAG
ACTACTCCAGATAACTTCGCTTCTTTGATACTTGTAGCTTATTGTAATTTTTTTTAAGAAATTCAAGGTCATTAT
TATTGTACAAAATAAGCGCTTTGATTAACACAGCTATATAGTTTTTTTAATTTTTAAAAAACCTGTGGAGACGGT
GATCTTGTCTTTAAAACATGATAGTCCTTTCAGTATAATGTCTTAGATTAAAGACGTTGCCTTTAATATCTGTTG
GGAAGGAAATGTCCAGACTTTTCAAATCTCTTATTATATGTTCCTTTTTTTGTTTACATAGGGAACAATGTTTA
TAGTCGTGTGTACAGTGGGGGTCTACAACAAGAAGTGTATATTTTCAAACAATTTTTTAATGATTTAACAATTTT
TGTAAATCATTTTCAGGCTTCTGCAGCTGTAGATTCTCACTGTGAATCCCTTGCTTGCTCATGCATAAGTGTATT
TGCAATACCAAATATACAGGTTTAGTATTTTTGCCTGTTAGTGATTGTTTCACATGTGTAACGTTTTGGTTGAGA
TGTTAAATGGTGGACGAGTACTGTGGATGTGAATGTGGGAAGTAATTTTAATCATATGTAATTGGTCACAAGGCC
TAATTTGCAGTAACTATTGCTGTTTTATTTAACAATGCCTTGTTGCTTTGTATGCATTAATGTTTGGATGTAAAG
ATTGTGTGTCTATCCAACAGGGAGCCACAGTATTTAAATTGACCAACCTAATGTTACAACTACTTTGAGGTGGCC
AAATGTAAACTAAAAGCCTTAATTAAAGTGGTGCAATTTTGTAAAAAAAAAA
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FIGURE 3721

MREYKLVVLGSGGVGKSALTVQFVQGIFVEKYDPTIEDSYRKQVEVDAQQCMLEILDTAGTEQFTAMRDLYMKNG
QGFALVYSITAQSTFNDLQDLREQILRVKDTDDVPMILVGNKCDLEDERVVGKEQGQNLARQWNNCAFLESSAKS
KINVNEIFYDLVRQINRKTPVPGKARKKSSCQLL

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FIGURE 3722

TTTCCGCGCTACCTGCAGAGGGGTCCATACGGCGCTGTTCTGGATTCCCGTTGTAACTTAAAGGGAAACTTTCAC
AA**ATG**TCCGGAGCCCTTGATGTCCTGCAAATGAGGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATGAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCATGCTATTGTTGCCATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGACGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGGCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTGGTTAC
TGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAACAC
AGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTTACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTCGGGAAGTTCTGTGCATGCTTGGCACCATTTCCTGTGAACACCCATGGGAGGTCATGCCTGA
TCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGA
GGAATTTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTATTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTCAGCAATTCCCTACTGAAGACTGGAGCTCTCAGCCTGCCATGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCT**TAA**GCTGTTCTTGC
ATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAGCATCAGTTTCT

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FIGURE 3723

MSGALDVLQMREEDVLKFLAAGTHLGGTNLDFQMEQYIYERKSDGIYIINLKRTWEKLLLAAHAIVAIENPADVS
VISSRNTGQTAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPLRYVDIAIPCNNKGAYSVGLMWWMLAREVLCMLGTISCEHPWEVMPDLYFYRDPEEIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTAIQPEVADWSEGVQVPSVPIQQFPTEDWSSQPAMEDWSAAPTAQATEWVGATTDWS

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FIGURE 3724

GGCACGAGAAAAATTCATGCGAGGGAGACGTGGTGGGCGGTCCTTCCTGTGACACGACCCTTGAGTGACAGTTCTA
TTTGATTGCCTCCGGTACTGTGAGGAAAGGACACGACTCTATGGTGAGGACTGATGGACATACATTATCTGAGAA
AAGAAACTACCAGGTGACAAACAGCATGTTTGGTGCTTCAAGAAAGAAGTTTGTAGAGGGGGTCGACAGTGACTA
CCATGACGAAAACATGTACTACAGCCAGTCTTCTATGTTTCCACATCGGTCAGAAAAAGATATGCTGGCATCACC
ATCTACATCAGGTCAGCTGTCTCAGTTTGGGGCAAGTTTATACGGGCAACAAAGTGCACTAGGCCTTCCAATGAG
GGGGATGAGCAACAATACCCCTCAGTTAAATCGCAGCTTATCACAAGGCACTCAGTTACCGAGCCACGTCACGCC
AACAACAGGGGTACCAACAATGTCACTTCACACGCCTCCATCTCCAAGCAGGGGTATTTTGCCTATGAATCCTAG
GAATATGATGAACCACTCCCAGGTTGGTCAGGGCATTGGAATTCCTAGCAGGACAAATAGCATGAGCAGTTCAGG
GTTAGGTAGCCCCAACAGAAGCTCGCCAAGCATAATATGTATGCCAAAGCAGCAGCCTTCTCGACAGCCTTTTAC
TGTGAACAGTATGTCTGGATTTGGAATGAACAGGAATCAGGCATTTGGAATGAATAACTCCTTATCAAGTAACAT
TTTTAATGGAACAGACGGAAGTGAAAATGTGACAGGATTGGACCTTTCAGATTCCCAGCATTAGCAGACCGAAA
CAGGAGGGAAGGAAGTGGTAACCCAACTCCATTAATAAACCCCTTGGCTGGAAGAGCTCCTTATGTTGGAATGGT
AACAAACCAGCAAATGAACAATCCCAGGACTTCTCAATACACAATGAAGATTTTCCAGCATTACCAGGCTCCAG
CTATAAAGATCCAACATCAAGTAATGATGACAGTAAATCTAATTTGAATACATCTGGCAAGACAACTTCAAGTAC
AGATGGACCCAAATTCCCTGGAGATAAAAGTTCAACAACACAAAATAATAACCAGCAGAAAAAGGGATCCAGGT
GTTACCTGATGGTCGGGTTACTAACATTCCTCAAGGGATGGTGACGGACCAATTTGGAATGATTGGCCTGTTAAC
ATTTATCAGGGCAGCAGAGACAGACCCAGGAATGGTACATCTTGCATTAGGAAGTGACTTAACAACATTAGGCCT
CAATCTGAACTCTCCTGAAAATCTCTACCCCAAATTTGCGTCACCCTGGGCATCTTCACCTTGTCGACCTCAAGA
CATAGACTTCCATGTTCCATCTGAGTACTTAACGAACATTCACATTAGGGATAAGCTGGCTGCAATAAAACTTGG
CCGATATGGTGAAGACCTTCTCTTCTATCTCTATTACATGAATGGAGGAGACGTATTACAACTTTTAGCTGCAGT
GGAGCTTTTTAACCGTGATTGGAGATACCACAAAGAAGAACGAGTATGGATTACCAGGGCACCAGGCATGGAGCC
AACAATGAAAACCAATACCTATGAGAGGGGAACATATTACTTCTTTGACTGTCTTAACTGGAGGAAAGTAGCTAA
GGAGTTCCATCTGGAATATGACAAATTAGAAGAACGGCCTCACCTGCCATCCACCTTCAACTACAACCCTGCTCA
GCAAGCCTTCTAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3725

MVRTDGHTLSEKRNYQVTNSMFGASRKKFVEGVDSDYHDENMYYSQSSMFPHRSEKDMLASPSTSGQLSQFGASL
YGQQSALGLPMRGMSNNTPQLNRSLSQGTQLPSHVTPTTGVPTMSLHTPPSPSRGILPMNPRNMMNHSQVGQGIG
IPSRTNSMSSSGLGSPNRSSPSIICMPKQQPSRQPFTVNSMSGFGMNRNQAFGMNNSLSSNIFNGTDGSENVTGL
DLSDFPALADRNRREGSGNPTPLINPLAGRAPYVGMVTKPANEQSQDFSIHNEDFPALPGSSYKDPTSSNDDSKS
NLNTSGKTTSSTDGPKFPGDKSSTTQNNNQQKKGIQVLPDGRVTNIPQGMVTDQFGMIGLLTFIRAAETDPGMVH
LALGSDLTTLGLNLNSPENLYPKFASPWASSPCRPQDIDFHVPSEYLTNIHIRDKLAAIKLGRYGEDLLFYLYYM
NGGDVLQLLAAVELFNRDWRYHKEERVWITRAPGMEPTMKTNTYERGTYYFFDCLNWRKVAKEFHLEYDKLEERP
HLPSTFNYNPAQQAF

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FIGURE 3726

CTGGTCCCGAGCACGAGCTGTGAGGGGATTCACTTGTGTGCGGAACTCCTCGGAACCATGGCGTCCCTTTCCCTT
GCACCTGTTAACATCTTTAAGGCAGGAGCTGATGAAGAGAGAGCAGAGACAGCTCGTCTGACTTCTTTTATTGGT
GCCATCGCCATTGGAGACTTGGTAAAGAGCACCTTGGGACCCAAAGGCATGGACAAAATTCTTCTAAGCAGTGGA
CGAGATGCCTCTCTTATGGTAACCAATGATGGTGCCACTATTCTAAAAAACATTGGTGTTGACAATCCAGCAGCT
AAAGTTTTAGTTGATATGTCAAGGGTTCAAGATGATGAAGTTGGTGATGGCACTACCTCTGTTACCGTTTTAGCA
GCAGAATTATTAAGGGAAGCAGAATCTTTAATTGCAAAAAAGATTCATCCACAGACCATCATAGCGGGTTGGAGA
GAAGCCACGAAGGCTGCAAGAGAGGCGCTGTTGAGTTCTGCAGTTGATCATGGTTCCGATGAAGTTAAATTCCGT
CAAGATTTAATGAATATTGCGGGCACAACATTATCCTCAAAACTTCTTACTCATCACAAAGACCACTTTACAAAG
TTAGCTGTAGAAGCAGTTCTCAGACTGAAAGGCTCTGGCAACCTGGAGGCAATTCATATTATCAAGAAGCTAGGA
GGAAGTTTGGCAGATTCCTATTTAGATGAAGGCTTCCTGTTGGATAAAAAAATTGGAGTAAATCAACCAAAACGA
ATTGAAAATGCTAAAATTCTTATTGCAAATACTGGTATGGATACAGACAAAATAAAGATATTTGGTTCCCGGGTA
AGAGTTGACTCTACAGCAAAGGTTGCAGAAATAGAACATGCGGAAAAGGAAAAAATGAAGGAGAAAGTTGAACGT
ATTCTTAAGCATGGAATAAATTGCTTTATTAACAGGCAATTAATTTATAATTATCCTGAACAGCTCTTTGGTGCT
GCTGGTGTCATGGCTATTGAGCATGCAGATTTTGCAGGTGTGGAACGCCTAGCTCTTGTCACAGGTGGTGAAATT
GCCTCTACCTTTGATCACCCAGAACTGGTGAAGCTTGGAAGTTGCAAACTTATCGAGGAAGTCATGATTGGAGAA
GACAAACTCATTCACTTTTCTGGGGTTGCCCTTGGTGAGGCTTGTACCATTGTTTTGCGTGGTGCCACTCAACAA
ATTTTAGATGAAGCAGAAAGATCATTGCATGATGCTCTTTGTGTTCTTGCGCAAACTGTAAAGGACTCTAGAACA
GTTTATGGAGGAGGCTGTTCTGAGATGTTGATGGCTCATGCTGTGACACAGCTTGCCAATAGAACACCAGGCAAA
GAAGCTGTTGCAATGGAGTCTTATGCTAAAGCACTGAGAATGTTGCCAACCATCATAGCTGACAATGCAGGCTAT
GACAGTGCAGACCTGGTGGCACAGCTCAGGGCTGCTCACAGTGAAGGCAATACCACTGCTGGATTGGATATGAGG
GAAGGCACCATTGGAGATATGGCTATCCTGGGTATAACAGAAAGTTTTCAAGTGAAGCGACAGGTTCTTCTGAGT
GCAGCTGAAGCAGCAGAGGTGATTCTGCGTGTGGACAACATCATCAAAGCGGCACCCAGGAAACGTGTCCCTGAT
CACCACCCCTGTTAAGCATTCCCACGTGCTGTCGATCTTTGGACCAGTTTCTAGCAAAGTTGTGTTTGAAAGATA
CTCTATTAAAGAAGACTGTGGAATCTGTTTATCGGTGCCCATTATATCCTTAAGTTTGGATATTTAGCTGACCTT
CGCTTTAACATAGGTCTAATTTATTTGCCGTGTCATTTTCCATACAAATCAGTTGATTTAAAAAAGTTCATTTCT
CATACTGTGCATTAAAATAAAAATTTGAACAAT

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FIGURE 3727

CGGCGTTCTCCACCTGCGCGGGCCTGAATGGCCTTCAGGAGCACAGTCGGCCTGAGGAGTTGACGGTTACTCACC
GCCGTGAGCCCAAGTAACTCGCCCTCCTTCGGCTAAAAACCCTCCGCCTGGGCCCGCGCGACAGGAGCGCGGTCT
CTGAGGGGAGCGGCGACCCCGCCAGCCCCGGTCTCTTTCCCTGGCGGCGGCGGCTTCTTCCGTGGGACAAT**ATGT**
TCAAGAGAATGGCCGAATTTGGGCCTGACTCCGGCGGGAGAGTAAAGGGTGTTACTATCGTTAAACCAATAGTTT
ACGGTAATGTTGCTCGGTATTTTGGAAAGAAAAGAGAAGAAGATGGGCACACTCATCAGTGGACAGTATATGTGA
AACCATATAGAAATGAGGATATGTCAGCATATGTGAAGAAAATCCAGTTTAAATTACATGAAAGCTATGGCAATC
CTTTAAGAGTTGTTACTAAACCTCCATATGAAATTACTGAAACAGGATGGGGTGAATTCGAAATAATCATCAAAA
TATTTTTCATTGACCCTAATGAAAGACCTGTAACCCTGTATCATTTGCTAAAGCTGTTTCAATCAGACACCAATG
CAATGCTGGGGAAAAAGACAGTGGTTTCAGAGTTCTATGATGAAATGATATTTCAAGACCCAACAGCAATGATGC
AACAATTATTGACAACATCTCGTCAGCTAACATTAGGAGCCTATAAGCATGAAACAGAATTTGCAGAGCTTGAAG
TGAAAACCAGAGAAAAATTAGAAGCTGCTAAGAAAAAAACAAGCTTTGAGATTGCAGAGCTTAAGGAGAGATTAA
AAGCAAGTCGTGAAACTATAAATTGTTTAAAAAATGAAATCAGAAAACTTGAAGAAGATGACCAAGCAAAAGACA
TA**TAA**ACAGTTCTCATGAGAACTTGGTAGTAAGCTAAACTGAAAATAAGGTGGGCTTCACTGGAGAAATGGACTT
ACTGCAAATGCTGTGATGTTTCTTAGAGGAACTTCATATACAGCTGTTGACCATGAATTTCTTAGCAATAGGAAT
TTGTACTATTTAAGCAATCTTTAATGGAAAATATGTGTGTAAGAATGGATGCTATATAGGTATTTTACCAACCCA
TTTTAAGAAAATTCTATGATATTAAGCACAGTTTTTAAAAATGTTTATTGTAGTATATGTATAGCTTATTACCCT
TTTGACAGGCATCAAAATTTCATTATAAAGTATTACTTGTACAAATTTTGTACTTCTTTAGTGGCTAGAATTAGT
GAAGAAACTTAATGTGTATATTTAATTTCTTCAAGTTCTTACCTGCCCCCATCCTTTTTTGTATATGATGTGTCC
AGTAAGTATTCAATAAATGTAGTTTACAGATCCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3728

MFKRMAEFGPDSGGRVKGVTIVKPIVYGNVARYFGKKREEDGHTHQWTVYVKPYRNEDMSAYVKKIQFKLHESYG
NPLRVVTKPPYEITETGWGEFEIIIKIFFIDPNERPVTLYHLLKLFQSDTNAMLGKKTVVSEFYDEMIFQDPTAM
MQQLLTTSRQLTLGAYKHETEFAELEVKTREKLEAAKKKTSFEIAELKERLKASRETINCLKNEIRKLEEDDQAK
DI

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FIGURE 3729

CTAGCACTCTGACCTAGCAGTCAAC**ATG**AAGGCTCTCATTGTTCTGGGGCTTGTCCTCCTTTCTGTTACGGTCCA
GGGCAAGGTCTTTGAAAGGTGTGAGTTGGCCAGAACTCTGAAAAGATTGGGAATGGATGGCTACAGGGGAATCAG
CCTAGCAAACTGGATGTGTTTGGCCAAATGGGAGAGTGGTTACAACACACGAGCTACAAACTACAATGCTGGAGA
CAGAAGCACTGATTATGGGATATTTCAGATCAATAGCCGCTACTGGTGTAATGATGGCAAAACCCCAGGAGCAGT
TAATGCCTGTCATTTATCCTGCAGTGCTTTGCTGCAAGATAACATCGCTGATGCTGTAGCTTGTGCAAAGAGGGT
TGTCCGTGATCCACAAGGCATTAGAGCATGGGTGGCATGGAGAAATCGTTGTCAAAACAGAGATGTCCGTCAGTA
TGTTCAAGGTTGTGGAGTG**TAA**CTCCAGAATTTTCCTTCTTCAGCTCATTTGTCTCTCTCACATTAAGGGAGTA
GGAATTAAGTGAAAGGTCACACTACCATTATTTCCCCTTCAAACAAATAATATTTTTACAGAAGCAGGAGCAAAA
TATGGCCTTTCTTCTAAGAGATATAATGTTCACTAATGTGGTTATTTTACATTAAGCCTACAACATTTTTCAGTT
TGCAAATAGAACTAATACTGGTGAAAATTTACCTAAAACCTTGGTTATCAAATACATCTCCAGTACATTCCGTTC
TTTTTTTTTTTTGAGACAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGCAACC
TCCACCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACGGGCGCCCGCCACCACG
CCCGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACC
TTGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCGGCCACATTCAGT
TCTTATCAAAGAAATAACCCAGACTTAATCTTGAATGATACGATTATGCCCAATATTAAGTAAAAAATATAAGAA
AAGGTTATCTTAAATAGATCTTAGGCAAAATACCAGCTGATGAAGGCATCTGATGCCTTCATCTGTTCAGTCATC
TCCAAAAACAGTAAAAATAACCACTTTTTGTTGGGCAATATGAAATTTTTAAAGGAGTAGAATACCAAATGATAG
AAACAGACTGCCTGAATTGAGAATTTTGATTTCTTAAAGTGTGTTTCTTTCTAAATTGCTGTTCCTTAATTTGAT
TAATTTAATTCATGTATTATGATTAAATCTGAGGCAGATGAGCTTACAAGTATTGAAATAATTACTAATTAATCA
CAAATGTGAAGTTATGCATGATGTAAAAAATACAAACATTCTAATTAAAGGCTTTGCAACAC

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FIGURE 3730

MKALIVLGLVLLSVTVQGKVFERCELARTLKRLGMDGYRGISLANWMCLAKWESGYNTRATNYNAGDRSTDYGIF
QINSRYWCNDGKTPGAVNACHLSCSALLQDNIADAVACAKRVVRDPQGIRAWVAWRNRCQNRDVRQYVQGCGV

FIGURE 3731

CCCTGAGTCACTGCCTGCGCAGCTCCGGCCGCCTGGCTCCCCATACTAGTCGCCGATATTTGGAGTTCTTACAAC
ATGGCAGACATTGACAACAAAGAACAGTCTGAACTTGATCAAGATTTGGATGATGTTGAAGAAGTAGAAGAAGAG
GAAACTGGTGAAGAAACAAAACTCAAAGCACGTCAGCTAACTGTTCAGATGATGCAAAATCCTCAGATTCTTGCA
GCCCTTCAAGAAAGACTTGATGGTCTGGTAGAAACACCAACAGGATACATTGAAAGCCTGCCTAGGGTAGTTAAA
AGACGAGTGAATGCTCTCAAAAACCTGCAAGTTAAATGTGCACAGATAGAAGCCAAATTCTATGAGGAAGTTCAC
GATCTTGAAAGGAAGTATGCTGTTCTCTATCAGCCTCTATTTGATAAGCGATTTGAAATTATTAATGCAATTTAT
GAACCTACGGAAGAAGAATGTGAATGGAAACCAGATGAAGAAGATGAGATTTCGGAGGAATTGAAAGAAAAGGCC
AAGATTGAAGATGAGAAAAAAGATGAAGAAAAAGAAGACCCCAAAGGAATTCCTGAATTTTGGTTAACTGTTTTT
AAGAATGTTGACTTGCTCAGTGATATGGTTCAGGAACACGATGAACCTATTCTGAAGCACTTGAAAGATATTAAA
GTGAAGTTCTCAGATGCTGGCCAGCCTATGAGTTTTGTCTTAGAATTTCACTTTGAACCCAATGAATATTTTACA
AATGAAGTGCTGACAAAGACATACAGGATGAGGTCAGAACCAGATGATTCTGATCCCTTTTCTTTTGATGGACCA
GAAATTATGGGTTGTACAGGGTGCCAGATAGATTGGAAAAAAGGAAAGAATGTCACTTTGAAAACTATTAAGAAG
AAGCAGAAACACAAGGGACGTGGGACAGTTCGTACTGTGACTAAAACAGTTTCCAATGACTCTTTCTTTAACTTT
TTTGCCCCTCCTGAAGTTCCTGAGAGTGGAGATCTGGATGATGATGCTGAAGCTATCCTTGCTGCAGACTTCGAA
ATTGGTCACTTTTTACGTGAGCGTATAATCCCAAGATCAGTGTTATATTTTACTGGAGAAGCTATTGAAGATGAT
GATGATGATTATGATGAAGAAGGTGAAGAAGCGGATGAGGAAGGGGAAGAAGAAGGAGATGAGGAAAATGATCCA
GACTATGACCCAAAGAAGGATCAAAACCCAGCAGAGTGCAAGCAGCAGTGAAGCAGGATGTATGTGGCCTTGAGG
ATAACCTGCACTGGTCTACCTTCTGCTTCCCTGGAAAGGATGAATTTACATCATTTGACAAGCCTATTTTCAAGT
TATTTGTTGTTTGTTTGCTTGTTTTTGTTTTTGCAGCTAAAATAAAAATTTCAAATACAATTTTAGTTCTTACAA
GATAATGTCTTAATTTTGTACCAATTCAGGTAGAAGTAGAGGCCTACCTTGAATTAAGGGTTATACTCAGTTTTT
AACACATTGTTGAAGAAAAGGTACCAGCTTTGGAACGAGATGCTATACTAATAAGCAAGT

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FIGURE 3732A

AGAGGCCCAGGAGGCTGGGTGAGGCGCTGAGACGGTTTGGCGGTGAGTCCTGGGCCAGGCGCAGCTGAAAGGCCC
GCAACCCGGGAAACGTCAAAACAAACAGAAGGACTTGGGATTCCGGAGCAGTCGCCCCTATCGCTGCTCCTGCAG
TTGCGGACGCCACCGACCCCGCCGCCGGAGGACTGGGCACTGAAAGGCCTCTAGGCCTAGGCGCGGCCCGCGGAG
CCAGACGTGTTGCTGCCGTGAGTAAAACGAGCGCCCTCTCCGCACTCGTTTACAAATTAAAATGGAGGAAATTTC
GTTGGCCAACCTGGATACTAACAAGCTAGAGGCCATCGCTCAGGAGATTTACGTAGACCTGATAGAGGATTCTTG
TTTGGGATTCTGCTTTGAGGTGCACCGGGCAGTCAAGTGTGGCTACTTCTACCTGGAGTTCGCAGAGACTGGTAG
CGTGAAGGATTTTGGCATTCAGCCAGTGGAAGACAAAGGAGCGTGCCGCCTCCCGCTTTGCTCCCTTCCCGGAGA
ACCTGGGAATGGGCCTGATCAGCAGCTGCAGCGCTCACCTCCGGAATTCCAGTAGCTGCAAAATGAGAGTCTGAA
AGTGGCCAGGACAATAACATAGACTGGTCCTGTGGCTTCGAGGAGTAAGCTAAGTAGAAAAAAGTAGAAAAATCA
GACAAAAGTTTTAATTCCCCCTTGAAGATCCTAGCATTTAAAAACCCAAAGTGGATAATTTAGGAATCCTTTTTT
TAAAGTGTATTACCTGGAGCAAGCTCTGAAGCCCTGGGCAGGAGGAGCTGCACAGCCTGCGGGCCATGCAGTGCC
TGTTGATCTCTAAACACACCAGGATGTGCGCAAGATCCTGTAGTGCCCCCAGTGCACAGGTGAGCAGTTGTGTGC
CCAGCATATAAAATTTTTGGTTCCTCAGCCTTTCTGTCTGCCTGATGTCAAGGGCTTCTTGGACAGTTTGGACGT
TACAGTTCGTCAGGCCGTGATCAGTGGCCTGCAGTGGGACTGCTCCTTTGATATCTGAACCTCTGTTATGGGCTT
CTCTGAGACAAGTAAATGTCAGGTGCAAGATCTGGATACTAACAGTTTCAGTTTGGGAAATCCAAGAAAAAGAAT
TATCAAGTTTGATAGGGAAGCTCTGTAGCCTTGACTCCAGCAAGAAGAAAAGGTCAAAACCACGTGTTTCCCAAA
AGTCCAGACTACAATGATTCAGCTGACTTGAGGACAAGGCCTAGCATTTGGCTGAGCAGAGCCCTCTTCCTTGCC
CTCCAACCTGGTGGCATAGGCTTGGCAAATGGACAACTTGGTTGTCCAGACAGGTTGAGGATTCGGTTATGATCC
CCTGGGGGAGGTAGCAGGGACCTCTGCAACTATGCATGATTTCTCAAACTTCAAGATTCATGTCTGGATGTATTAT
GCTGTGGATATAAGTTTAGTAGGGCGGTCATTTCCTACTCTGAGTTACTGGTTACCTAGCCAGTCCATGGGTGTG
ACTTGGTCCTTAAGTCAGGTCACTATCTGCCTCCCACCCTGGGGGCAGGACTGAAGTATGGAAGAGCATCATGGC
TGTGCAGGAGGCTGTGGTTTGAAAAACTGAGCCCAGAGGGCACTTTCAGCTGCCCTCAATAATGTGAATGGATTAG
TGCTAGGAGCCAAGGAGCAGGACTGGATTATCTCATCTGACTGTGTGCAGAATCCTGTTGAATGTCCCTGTTTTC
TTTGGTTGGGCAGTCAGAGCTCTGCTATGGTGAACATCCAGACTGTCACCCACTTTCTGTCTGCCGCTCGAAAGGG
ATAGTCCTTTCCACTCGGTCCCCTTTGGATCTTCTTGACAACAGGAGCAGTCCTTTTATTGTTAGAAGTCAGAGA
AAGACCTCCAGAATCTCCTGACTTTAGGGAATGGTATAGGGGAAGATGGGAAGTAAGAGTCACATATCAAAACTA
CCCTCCACTTTATTCCCTGAGCGAGGGGTTTATGAAGTATAAAGGGGTGGGAGCCCCGAGGTGAGCGGGAACGGTG
CTGCTTTATTTGAA**ATG**TTTTCTTACCTCATTCTGTGCCCCAGTAGGGGGTCCAGCCTCATCTGTCTGGCTTGGC
CCTGTGTTCCTCCTGTCCCCTGCTCCACTGCCTATCTGGTGCCCCAGGTGCTGCTTGCCACTCCAGCTGTCACAT
TGAACAGTTTCAATTCAGCTCTTAATGCTCCTGCTTCCGAAGCCTGCCCAATTTCTTTTTTTCTTGGCCTCTGTTT
TTTTTTTTTCTTTCTTTTTCCCTTGTTTTTGTAGAAGACTCAGAGGAGAATCTTTCTTATGGCTCCCTCTGTTGA
GATTGGAATTGGAAGAGAACTTAATTTTTTGTATT**TAA**ATGCAGTGTCATGCCTATAAGCATTTCTCCTATATA
GGACTGCTTTGCTAGTGTGCCCTCTTGCTGTGTCTTACTTCATAAGGAGTTGTATCTTCCCACCTCCATTTCAAT
ACTGCCGGTTAGGACCTAAGTAGAAGAGCAGTAAAGGCTGATTGACACACAGGGGGGATGGAGTTGGTCCTTGTCC
ATTCTCTCACCCTTGCTGTGCATGTATCAATCCTTATCCCAGAAGGTACTATTTAGACTGTATAGACTGATTTAG
ATTACATACTTTAGAGGATTAAGGAAACCATAGAGTTTGGGCCTTGGAACTGTTACTGCCTTGTCCTAGAGTTGT
CCTGATCAGGCTTGGGGCCTAGTTACAGATTAGTCTTAAAGAATTGCATTAACTTAAAAAAAAATCAAACCTTGGC
AAGAGCTAAAATAATTTGGAGATATCTTTGCCCTTGACTTGTAGCGACATCTAAGAGGATGAAGAAAGGAGAGT
CTAAGTGAGACTCTGGCCTACTTCCTAACAATGTCTTGGAAGTGGGATGATGGTAAAGGAGAAAGGCCACAGTCC
AATCCCTCTGCCTTCAGATAGGGAACTCAAATCCTGAAATTACTGTTTTCTTTCTGGCCTTTTCTCCTGGTTAGA
GGAGGAAGCGGAAAGTAGTTTTGAGTAGTATTTTGTTCATATTACCCCCCTTTTGTTTTTTGTTTCTGGCCCCTC
TACCAATAGGGCAGTAGCCTCCTGCCCTGGATGGGTATAAGGTGGGCTTGGTCCAACAGGTGCCCAGAGGGTACA
TACTCCTTTCTGGGGAGAGAATGCTCCCTACCATATAGTTGACAGTGGTTAGGAACTCTCCCTTTCCCTACCTAC
CTTCCTTTTAATAGCAGAATTCCTATTTTTCCCTTGATTATGTGTATTGATCACCCTGCAATCCTATTATGTATC
TGAGTGTGTGTGTGTGTGTATGTGTGTGTTATGGGGGAAGGGGGGGGTTCTTTAAAATTTCTGTGGTTTGTGGCT
TTTTCTTCCATACATTAGTTCCCACCATCGCATGCCCAGGGACCACTGCCTGGCATTATCGCATGCTGGGATCAT
CGGGGGAGGGTAGTGAAGCTCACCACTGTCCTTTGTTTTGGAGATTTTTATTTTTGCATAAGTAGTCCATCCTAT
ACAGATAGCTGATTAACTGTATTCCCCTTTCCCCTATGGCTGCTGGTGTAAATAAACTGCATCTCCCCATTGGTA

4046/6881
FIGURE 3732B

AACAGTAATAAAATTTTAAAAAATG

4047/6881
FIGURE 3733

MFSYLILCPSRGSSLICLAWPCVPPVPCSTAYLVPQVLLATPAVTLNSFNSALNAPASEACPISFFLASVFFFSF
FFPCFCRRLRGESFLWLPLLRLELEENLIFCI

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FIGURE 3734

GAACCGCCATCTTCCAGTAATTCGCCAAA**ATG**ACGAACACAAAGGGAAAGAGGAGAGGCACCCCATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTTGTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAGTCTACA
ATGTTACCCAGCATACTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAGAGCTGAGATAGCTTCCTGAAACGCGTGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTGTGAATTCATGGCA**TAA**TAGGTGTTAAAAA
AAAAAATAAATAAAGGACCTCTGGGCTAT

4049/6881
FIGURE 3735

MTNTKGKRRGTPYMFSRPFRKHGVVCLATYMRIYKKGDIVDIKGMGTVQKGMPHKCYHGKTGRVYNVTQHTVGIV
VNKQVKGKILAKRINVRIEHIKHSKSEDSFLKRVKENDQKKKEAKEKGTWVQLKRQPAPPREAHFVRTNGKEPEL
LEPIPCEFMA

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FIGURE 3736A

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ATGAAGATGGCGGACGCGAAGCAGAAGCGGAACGAGCAGCTGAAACGCTGGATCGGCTCCGAGACGGACCTCGAG
CCTCCGGTGGTGAAGCGCCAGAAGACCAAGGTGAAGTTCGACGATGGCGCCGTCTTCCTGGCTGCTTGCTCCAGC
GGCGACACGGACGAGGTCCTCAAGCTGCTGCACCGCGGCGCCGACATCAATTACGCCAATGTGGACGGACTCACT
GCCCTGCACCAGGCTTGCATTGATGACAATGTTGATATGGTGAAGTTTCTGGTAGAAAATGGAGCAAATATTAAT
CAACCTGATAATGAAGGCTGGATACCACTACATGCAGCAGCTTCCTGTGGATATCTTGATATTGCAGAGTTTTTG
ATTGGTCAAGGAGCACATGTAGGGGCTGTCAACAGTGAAGGAGATACACCTTTAGATATTGCGGAGGAGGAGGCA
ATGGAAGAGCTACTTCAAAATGAAGTTAATCGGCAAGGGGTTGATATAGAAGCAGCTCGAAAGGAAGAAGAACGG
ATCATGCTTAGAGATGCCAGGCAGTGGCTAAATAGTGGTCATATAAATGATGTCCGGCATGCAAAATCTGGAGGT
ACAGCACTTCACGTTGCAGCTGCTAAAGGCTATACGGAAGTTTTAAAACTTTTAATACAGGCAGGCTATGATGTT
AATATTAAAGACTATGATGGCTGGACACCTCTTCATGCTGCAGCTCATTGGGGTAAAGAAGAAGCATGTCGAATT
TTAGTGGACAATCTGTGTGATATGGAGATGGTCAACAAAGTGGGCCAAACAGCCTTTGATGTAGCAGATGAAGAC
ATTTTAGGATATTTAGAAGAGTTGCAAAAGAAACAAATCTGCTCCATAGTGAAAAACGGGACAAGAAATCTCCA
CTAATTGAATCAACAGCAAATATGGACAATAATCAGTCACAGAAGACCTTTAAAAACAAAGAGACGTTGATTATT
GAACCAGAGAAAAATGCATCCCGTATTGAATCTCTGGAACAAGAAAAGGTTGATGAAGAAGAAGAAGGAAAGAAG
GATGAGTCTAGCTGCTCTAGTGAAGAAGATGAGGAAGATGACTCGGAATCAGAAGCTGAAACAGATAAGACAAAA
CCCCTGGCTTCTGTAACTAATGCCAACACTTCTAGTACACAAGCAGCTCCTGTAGCTGTTACAACACCTACTGTG
TCATCAGGTCAAGCAACACCTACATCACCTATTAAAAAGTTTCCAACCACAGCTACAAAAATTTCTCCCAAAGAA
GAAGAGAGAAAAGATGAGTCTCCTGCAACTTGGAGGTTAGGACTTAGAAAGACGGGCAGCTATGGTGCACTTGCT
GAAATCACAGCATCTAAAGAGGGTCAGAAAGAAAAAGATACTGCAGGTGTTACACGTTCAGCTTCAAGTCCCAGA
CTTTCCTCCTCTTTGGATAATAAAGAAAAGGAGAAAGATAGTAAAGGAACTAGGCTTGCATATGTTGCACCTACA
ATACCAAGACGACTAGCCAGTACATCTGACATTGAAGAGAAAGAAAACAGAGATTCTTCAAGTTTGCGAACAAGT
AGTTCATATACAAGGAGAAAATGGGAAGATGATCTTAAAAAAAAATAGCTCAGTTAATGAAGGATCAACGTATCAT
AAAAGTTGCTCCTTTGGTAGAAGACAAGATGATTTGATTAGTTCTAGTGTTCCAAGCACCACATCAACACCAACA
GTTACCTCTGCAGCTGGGCTTCAGAAAAGCCTGCTTTCCAGCACAAGCACTACTACAAAGATTACAACGGGTTCT
TCCTCAGCAGGCACACAAAGCAGTACCTCAAATCGTTTGTGGGCTGAGGATAGTACTGAGAAAGAAAAGGACAGT
GTTCCTACGGCAGTGACCATTCCTGTTGCTCCAACTGTTGTAAATGCTGCAGCTTCTACCACAACCCTGACTACA
ACTACTGCTGGCACTGTCTCCTCCACAACAGAGGTCAGGGAGAGACGCAGATCATACCTCACTCCTGTTAGGGAT
GAAGAGTCTGAATCCCAAAGAAAAGCAAGATCTAGACAAGCAAGACAATCTAGAAGATCAACACAGGGAGTGACA
TTAACTGATCTTCAAGAAGCTGAGAAAACAATAGGAAGAAGTCGTTCTACCCGAACCAGAGAACAAGAAAATGAA
GAAAAAGAAAAGAGGAAAAAGAGAAACAAGATAAAGAGAAACAAGAAGAAAAGAAGGAGTCAGAAACATCTAGA
GAAGATGAATATAAACAAAAGTACTCCAGAACGTATGATGAGACTTACCAGCGTTATAGGCCAGTATCAACTTCA
AGTTCAACCACTCCATCCTCTTCACTTTCTACTATGAGCAGTTCACTGTATGCTTCAAGTCAACTAAACAGGCCA
AATAGTCTTGTAGGCATAACTTCTGCTTACTCCAGAGGAATAACAAAAGAAATGAAAGAGAGGGAGAAAAAAGA
GAAGAGGAGAAAGAAGGAGAAGATAAATCACAACCTAAATCAATCAGAGAACGACGACGACCAAGAGAGAAAAGA
AGATCTACAGGAGTTTCATTTTGGACACAAGATAGTGATGAAAATGAACAAGAACAACAATCAGACACAGAAGAG
GGATCCAATAAGAAAGAAACTCAGACGGATTCCATTTCTAGATATGAAACCAGTTCTACATCAGCTGGTGATCGA
TATGATTCCTTGCTGGGTCGCTCTGGATCATACAGTTACTTAGAAGAAAGAAAACCTTACAGCAGCAGGCTAGAA
AAGGATGACTCAACTGACTTTAAAAAGCTTTATGAACAAATTCTAGCTGAAAATGAAAAGCTGAAGGCACAGCTA
CATGATACAAATATGGAACTAACAGATCTTAAATTACAGTGGAAAAGGCCACCCAGAGACAAGAAAGATTTGCT
GATAGATCACTGTTGGAAATGGAAAAAAGGGAACGAAGAGCTCTAGAAAGAAGAATATCTGAAATGGAAGAAGAG
CTCAAAATGTTACCAGACCTAAAAGCAGACAACCAGAGGCTAAAGGATGAAATGGGGCCTTGATCAGAGTTATA
AGCAAACTTTCCAAATAAAAAAAAAAAAAAAGCAGCAAGTAATGGAATTGCACATATTAGTAACCCAGTGGACCATA
ATTGGCAGTCACTGGAAGTCTGGGAAGAATCCTTGGAGACTGTCATTTCGGATATCCTGCCAAATGCCCTCTTA
TCTAGAATTTTTGTTTCATTTTGTTTAATTTTCTGGGGTGTTTTTGTTGTTGTTGGTTTGTTTTTTGTTTTTTTT
TTTTAATCAAGACCATTGTTTCATGTTAATGCAGCTGCTGAGAAGATTTTTTTTTAATGACTGAGAAAACTTGTT
TACAGCTCCAGCATATAAGGAAAGTGTTCAAGGCCAGATATGCCTCAGATATTTAACCAGTAAGCCTTAGTTGTA
CATAAATACTTTTGTGTCAACAAAAACTTTCAGCTCTCACAGAAGACAGTTACTCAACATTTTTTGATGTGCCAC
AGTTTCGAGTTTTTCGATATTTAAATTTTTTGGCTTTTCATCTAAGTTTGGGTTTGTATTTTTTCCTTCTAAACT
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FIGURE 3736B

CTTCATGTGGCAGAGTCTTCTATGTTTTCACAGCTTTTTCATTACAGAAAAGAACACTTGCTCTTCTGTGATTAT
TGTCATGTATTAGGCTAATGCTGTGTTGTCTCCCACCTGGAACTGAATTGCTTGGTGGAACATATGCTTTCACTG
TTTGTGCAATATGCATTTATTTCTTATATGAATGCTTTAAAGTCATTTGAGGTTAGATCTTTTAATTCCTATTTT
CTGCTTCATTGGTCACTTTTTTTTTATTGTAGTATAAGATGTTAGATTCTGTAATCTTCACATTCATTTTAGCAG
GTACTGAGTGATGCTGTATATACAAATAAGTGTATTGTTTTGATTTTTAGACCACCACATGGCATGCTTGACTAT
TTCTTATTTCAAATGTCTGCTAATGCAGAGTAGGCTACTCCATGATAGTGTTAAAAAACAAAATTTGCTAACAAT
GTGATATAAAGACTTTAAAAGTTACACATTATGTGGAGCCCTATCTTTACAAAGTTTCCTACTGTAAAGTGCTT
TTATTTTCAGTTTTCACTTGATAGTACTCAACCATAATTAAAGTTGCATAAGATAATTGCTTTACATTTCACATA
CCTATATTTATCTGAGTGCTGTCTAAAACTGTTGTGCTAGCCAAAGTAATGCTATGAAATCATTTGCAGAATTAA
CCCGTGAGTTAATGTTAAATGCACTGTTATTGCCATGTGAAGAGGCATCGACTTTGATACCACCATCATGTTCAG
ACCATTTTATACATTTCAGTGGCCTTTTTTTTTTTTTAAGGAAAAAAAAGCGCAAAACCAAGTACATAGTGACGA
TGGCTTTTATTTGGACAAATAGCTTTTATATTTTCATTAAACCATGCAAAAAATACTACATCTTTCTGGCACATA
ACTGTCTCCTTAACCACTGAACAGTTCAGCCATTTGAATAAATTGTACATTGTAAAGCTTATAGTAGCTGATTGT
ATTATTGATTGTATTGTATACTATATTAAATGTGAATTTGT

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FIGURE 3737

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CAGCCTTGGAGGGAGGGATTAGAAGCCGCTAGACTTTTTTTCCTCCCCTCTCAGTAGCACGGAGTCCGAATTAAT
TGGATTTCATTCACTGGGGAGGAACAAAAACTATCTGGGCAGCTTCATTGAGAGAGATTCATTGACACTAAGAGC
CAGCGGCTGCAGCTGGGTGCAGAGAGAACCTCCGGCTTTACTTCTGTCTCGTCTGCCCCAACCGCTAGCCTCGGC
TTGGGTAAGGCGAGGCGGAATTAAACCCCGCTCCGAGAGCGGCAGCTTCGCGCGCGGTGCGCTCGGCCTATGCCT
GCCCCGAGGGGCGTCTGGTAGGCACCCCGCCCTCTCCCGCAGCTCGACCCCCATGATAGATACGCTCAGACCCGT
GCCCTTCGCGTCGGAAATGGCGATCAGCAAGACGGTGGCGTGGCTCAACGAGCAGCTGGAGCTGGGCAACGAGCG
GCTGCTGCTGATGGACTGCCGGCCGCAGGAGCTATACGAGTCGTCGCACATCGAGTCGGCCATCAACGTGGCCAT
CCCGGGCATCATGCTGCGGCGCCTGCAGAAGGGTAACCTGCCGGTGCGCGCGCTCTTCACGCGCGGCGAGGACCG
GGACCGCTTCACCCGGCGCTGTGGCACCGACACAGTGGTGCTCTACGACGAGAGCAGCAGCGACTGGAACGAGAA
TACGGGCGGCGAGTCGGTGCTCGGGCTGCTGCTCAAGAAGCTCAAGGACGAGGGCTGCCGGGCGTTCTACCTGGA
AGGTGGCTTCAGTAAGTTCCAAGCCGAGTTCTCCCTGCATTGCGAGACCAATCTAGACGGCTCGTGTAGCAGCAG
CTCGCCGCCGTTGCCAGTGCTGGGGCTCGGGGGCCTGCGGATCAGCTCTGACTCTTCCTCGGACATCGAGTCTGA
CCTTGACCGAGACCCCAATAGTGCAACAGACTCGGATGGTAGTCCGCTGTCCAACAGCCAGCCTTCCTTCCCAGT
GGAGATCTTGCCCTTCCTCTACTTGGGCTGTGCCAAAGACTCCACCAACTTGGACGTGTTGGAGGAATTCGGCAT
CAAGTACATCTTGAACGTCACCCCCAATTTGCCGAATCTCTTTGAGAACGCAGGAGAGTTTAAATACAAGCAAAT
CCCCATCTCGGATCACTGGAGCCAAAACCTGTCCCAGTTTTTCCCTGAGGCCATTTCTTTCATAGATGAAGCCCG
GGGCAAGAACTGTGGTGTCTTGGTACATTGCTTGGCTGGCATTAGCCGCTCAGTCACTGTGACTGTGGCTTACCT
TATGCAGAAGCTCAATCTGTCGATGAACGACGCCTATGACATTGTCAAAATGAAAAAATCCAACATATCCCCTAA
CTTCAACTTCATGGGTCAGCTGCTGGACTTCGAGAGGACGCTGGGACTCAGCAGCCCATGTGACAACAGGGTTCC
AGCACAGCAGCTGTATTTTACCACCCCTTCCAACCAGAATGTATACCAGGTGGACTCTCTGCAATCTACGTGAAA
GACCCCACACCCCTCCTTGCTGGAATGTGTCTGGCCCTTCAGCAGTTTCTCTTGGCAGCATCAGCTGGGCTGCTT
TCTTTGTGTGTGGCCCCAGGTGTCAAAATGACACCAGCTGTCTGTACTAGACAAGGTTACCAAGTGCGGAATTGG
TTAATACTAACAGAGAGATTTGCTCCATTCTCTTTGGAATAACAGGACATGCTGTATAGATACAGGCAGTAGGTT
TGCTCTGTACCCATGTGTACAGCCTACCCATGCAGGGACTGGGATTCGAGGACTTCCAGGCGCATAGGGTAGAAC
CAAATGATAGGGTAGGAGCATGTGTTCTTTAGGGCCTTGTAAGGCTGTTTCCTTTTGCATCTGGAACTGACTATA
TAATTGTCTTCAATGAAGACTAATTCAATTTTGCATATAGAGGAGCCAAAGAGAGATTTCAGCTCTGTATTTGTG
GTATCAGTTTGGAAAAAAAATCTGATACTCCATTTGATTATTGTAAATATTTGATCTTGAATCACTTGACAGTG
TTTGTTTGAATTGTGTTTGTTTTTTCCTTTGATGGGCTTAAAAGAAATTATCCAAAGGGAGAAAGAGCAGTATGC
CACTTCTTAAAACAGAACAAAACAAAAAAAGAAAATTGTGCTCTTTTCTAATCCAAAGGGTATATTTGCAGCATG
CTTGACTTTACCAATTCTGATGACATCTTTACGGACACTATTATCACTAAGACCTTGTTATGGCGAAGTCTTTAG
TCTTTTTCATGTATTTTCCTCATGATTTTTTCTCTTTATGTAGTTTGACTATGCCTTACCTTTGTAAATATTTTT
GCTTGTGTTGTCGCAAAGGGGATAATCTGGGAAAGACACCAAATCATGGGCTCACTTTAAAA
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FIGURE 3738

MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMDCRPQELYESSHIESAINVAIPGIMLRRLQKGNLPVRA
LFTRGEDRDRFTRRCGTDTVVLYDESSSDWNENTGGESVLGLLLKKLKDEGCRAFYLEGGFSKFQAEFSLHCETN
LDGSCSSSSPPLPVLGLGGLRISSDSSSDIESDLDRDPNSATDSDGSPLSNSQPSFPVEILPFLYLGCAKDSTNL
DVLEEFGIKYILNVTPNLPNLFENAGEFKYKQIPISDHWSQNLSQFFPEAISFIDEARGKNCGVLVHCLAGISRS
VTVTVAYLMQKLNLSMNDAYDIVKMKKSNISPNFNFMGQLLDFERTLGLSSPCDNRVPAQQLYFTTPSNQNVYQV
DSLQST

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FIGURE 3739

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GTCTCTCTTCTCCCTTCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATT
GGAGGGTTGAGCTTTAAAACAACCGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGT
GTGGTAATGAGAGATCCAAACACAGAGCACTCCAGGGGCTTTGGGTTCATCACACATGCCACTGTGGAGGAGGTG
GATGCAGCCATGAATGCAAGGCCACATAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCAAGAGAA
GATTCTCAAAGACCAGGTGCCCACTTAACTATGAAAAAGATATTTGTTGGTGGCATTAAACAATGAAGAACAACA
CCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGACTCAAATCATGACTCACTGAGGCAGTGCCAAGAA
AAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGATAAGACTGTCATTCAGAAATACCATACTGT
GAATGGCCACAACTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCTAGGGCTTTATCCAGCCAAAGAGG
CTGAAGTGGTTCTAGAAACTTTGGCGGTGGTCGTGGAGGTGGTTTTGGCAGGAATGACAACACTGGTAGTGGAGG
AAACTTCAGTGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTT
TGGAGGTGGTGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGG
AAACTTTGGAGGCAGAAGCCCTGGCCCCTATGGTGGTGGAGGCCAATACTTTGCCAAACCATGAAACCAAGGTGG
CTATGGTGGTTCCAGTAGCAGCAGTAGCTATGGCAATGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGA
GAGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTGTGAACTCAGCCAAGCACAGTGGTGGCA
GGGCCTAGCTGCTACAAAGAAGACCTGTTTTAGACAAATACTCATGGGTATGGGCAAAAAACTCGAGGACTGTAT
TTGTGACTAATTGTATAACAAGTCATTTTAGTTTCTGTTCTGTGGAAAGTGTAAAGCATTCCAACAAAGGGTTTC
AATGTAGATTTTTTTTTTTTTTGCAAACATGCTGTTGATTGCTAAATGTAAGTCTGATCATGATGCAGAATAAA
TGTCTTTTTT
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FIGURE 3740

TTTAACTGTGCTATGGAGTAGAAGCAGGAGGTTTTCAACCTAGTCACAGAGCAGCACCTACCCCCTCCTCCTTTC
CACACCTGCAAACTCTTTTACTTGGGCTGAATATTTAGTGTAATTACATCTCAGCTTTGAGGGCTCCTGTGGCAA
ATTCCCGGATTAAAAGGTTCCCTGGTTGTGAAAATACATGAGATAAATC<u>ATG</u>AAGGCCACTATCATCCTCCTTCT
GCTTGCACAAGTTTCCTGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTC
TGGGATAGGCCCAGAAGTTCCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCCAGTGTGCCCCTTCCGCTGTCA
ATGCCATCTTCGAGTGGTCCAGTGTTCTGATTTGGGTCTGGACAAAGTGCCAAAGGATCTTCCCCCTGACACAAC
TCTGCTAGACCTGCAAAACAACAAAATAACCGAAATCAAAGATGGAGACTTTAAGAACCTGAAGAACCTTCACGC
ATTGATTCTTGTCAACAATAAAATTAGCAAAGTTAGTCCTGGAGCATTTACACCTTTGGTGAAGTTGGAACGACT
TTATCTGTCCAAGAATCAGCTGAAGGAATTGCCAGAAAAAATGCCCAAAACTCTTCAGGAGCTGCGTGCCCATGA
GAATGAGATCACCAAAGTGCGAAAAGTTACTTTCAATGGACTGAACCAGATGATTGTCATAGAACTGGGCACCAA
TCCGCTGAAGAGCTCAGGAATTGAAAATGGGGCTTTCCAGGGAATGAAGAAGCTCTCCTACATCCGCATTGCTGA
TACCAATATCACCAGCATTCCTCAAGGTCTTCCTCCTTCCCTTACGGAATTACATCTTGATGGCAACAAAATCAG
CAGAGTTGATGCAGCTAGCCTGAAAGGACTGAATAATTTGGCTAAGTTGGGGATTGAGTTTCAACAGCATCTCTGC
TGTTGACAATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAGCTTCACTTGGACAACAACAAGCTTACCAGAGT
ACCTGGTGGGCTGGCAGAGCATAAGTACATCCAGGTTGTCTACCTTCATAACAACAATATCTCTGTAGTTGGATC
AAGTGACTTCTGCCCACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGTGTGAGTCTTTTCAGCAACCCGGT
CCAGTACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAAACTATAA
G<u>TAA</u>TTCTCAAGAAAGCCCTCATTTTTATAACCTGGCAAAATCTTGTTAATGTCATTGCTAAAAAATAAATAAAA
GCTAGATACTGGAAACCTAACTGCAATGTGGATGTTTTACCCACATGACTTATTATGCATAAAGCCAAATTTCCA
GTTTAAGTAATTGCCTACAATAAAAAGAAATTTTGCCTGCCATTTTCAGAATCATCTTTTGAAGCTTTCTGTTGA
TGTTAACTGAGCTACTAGAGATATTCTTATTTCACTAAATGTAAAATTTGGAGTAAATATATATGTCAATATTTA
GTAAAGCTTTTCTTTTTTAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCTTCTGTAATTCATTGAGCAGTTAG
CTCATTTGAGATAAAGTCAAATGCCAAACACTAGCTCTGTATTAATCCCCATCATTACTGGTAAAGCCTCATTTG
AATGTGTGAATTCAATACAGGCTATG

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FIGURE 3741

MKATIILLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLGLDKV
PKDLPPDTTLLDLQNNKITEIKDGDFKNLKNLHALILVNNKISKVSPGAFTPLVKLERLYLSKNQLKELPEKMPK
TLQELRAHENEITKVRKVTFNGLNQMIVIELGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLPPSLTE
LHLDGNKISRVDAASLKGLNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNNKLTRVPGGLAEHKYIQVVYLH
NNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPVQYWEIQPSTFRCVYVRSAIQLGNYK

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FIGURE 3742

AAAGCAGCATCTTGCCTGGATGAGCCAGGGGACACAGAAGAGAAGCCCACTATCTCATTTAATCTTTACAACTCT
CTTGCAAGGGTTCCCTGGTTGTGAAAATACATGAGATAAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGCA
CAAGTTTCCTGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATA
GGCCCAGAAGTTCCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCCAGTGTGCCCCTTCCGCTGTCAATGCCAT
CTTCGAGTGGTCCAGTGTTCTGATTTGGGTCTGGACAAAGTGCCAAAGGATCTTCCCCCTGACACAACTCTGCTA
GACCTGCAAAACAACAAAATAACCGAAATCAAAGATGGAGACTTTAAGAACCTGAAGAACCTTCACGCATTGATT
CTTGTCAACAATAAAATTAGCAAAGTTAGTCCTGGAGCATTTACACCTTTGGTGAAGTTGGAACGACTTTATCTG
TCCAAGAATCAGCTGAAGGAATTGCCAGAAAAAATGCCCAAAACTCTTCAGGAGCTGCGTGCCCATGAGAATGAG
ATCACCAAAGTGCGAAAAGTTACTTTCAATGGACTGAACCAGATGATTGTCATAGAACTGGGCACCAATCCGCTG
AAGAGCTCAGGAATTGAAAATGGGGCTTTCCAGGGAATGAAGAAGCTCTCCTACATCCGCATTGCTGATACCAAT
ATCACCAGCATTCCTCAAGGTCTTCCTCCTTCCCTTACGGAATTACATCTTGATGGCAACAAAATCAGCAGAGTT
GATGCAGCTAGCCTGAAAGGACTGAATAATTTGGCTAAGTTGGGGATTGAGTTTCAACAGCATCTCTGCTGTTGAC
AATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAGCTTCACTTGGACAACAACAAGCTTACCAGAGTACCTGGT
GGGCTGGCAGAGCATAAGTACATCCAGGTTGTCTACCTTCATAACAACAATATCTCTGTAGTTGGATCAAGTGAC
TTCTGCCCACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGTGTGAGTCTTTTCAGCAACCCGGTCCAGTAC
TGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAAACTATAAGTAATTC
TCAAGAAAGCCCTCATTTTTATAACCTGGCAAAATCTTGTTAATGTCATTGCTAAAAAATAAATAAAAGCTAGAT
ACTGGAAACCTAACTGCAATGTGGATGTTTTACCCACATGACTTATTATGCATAAAGCCAAATTTCCAGTTTAAG
TAATTGCCTACAATAAAAAGAAATTTTGCCTGCCATTTTCAGAATCATCTTTTGAAGCTTTCTGTTGATGTTAAC
TGAGCTACTAGAGATATTCTTATTTCACTAAATGTAAAATTTGGAGTAAATATATATGTCAATATTTAGTAAAGC
TTTTCTTTTTTAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCTTCTGTAATTCATTGAGCAGTTAGCTCATTT
GAGATAAAGTCAAATGCCAAACACTAGCTCTGTATTAATCCCCATCATTACTGGTAAAGCCTCATTTGAATGTGT
GAATTCAATACAGGCTATG

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FIGURE 3743

MKATIILLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLGLDKV
PKDLPPDTTLLDLQNNKITEIKDGDFKNLKNLHALILVNNKISKVSPGAFTPLVKLERLYLSKNQLKELPEKMPK
TLQELRAHENEITKVRKVTFNGLNQMIVIELGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLPPSLTE
LHLDGNKISRVDAASLKGLNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNNKLTRVPGGLAEHKYIQVVYLH
NNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPVQYWEIQPSTFRCVYVRSAIQLGNYK

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FIGURE 3744

GTTCCCTGGTTGTGAAAATACATGAGATAAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCC
TGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCCAGAA
GTTCCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCCAGTGTGCCCCTTCCGCTGTCAATGCCATCTTCGAGTG
GTCCAGTGTTCTGATTTGGAACTGGGCACCAATCCGCTGAAGAGCTCAGGAATTGAAAATGGGGCTTTCCAGGGA
ATGAAGAAGCTCTCCTACATCCGCATTGCTGATACCAATATCACCAGCATTCCTCAAGGTCTTCCTCCTTCCCTT
ACGGAATTACATCTTGATGGCAACAAAATCAGCAGAGTTGATGCAGCTAGCCTGAAAGGACTGAATAATTTGGCT
AAGTTGGGATTGAGTTTCAACAGCATCTCTGCTGTTGACAATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAG
CTTCACTTGGACAACAACAAGCTTACCAGAGTACCTGGTGGGCTGGCAGAGCATAAGTACATCCAGGTTGTCTAC
CTTCATAACAACAATATCTCTGTAGTTGGATCAAGTGACTTCTGCCCACCTGGACACAACACCAAAAAGGCTTCT
TATTCGGGTGTGAGTCTTTTCAGCAACCCGGTCCAGTACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTAC
GTGCGCTCTGCCATTCAACTCGGAAACTATAAGTAATTCTCAAGAAAGCCCTCATTTTTATAACCTGGCAAAATC
TTGTTAATGTCATTGCTAAAAAATAAATAAAAGCTAGATACTGGAAACCTAACTGCAATGTGGATGTTTTACCCA
CATGACTTATTATGCATAAAGCCAAATTTCCAGTTTAAGTAATTGCCTACAATAAAAAGAAATTTTGCCTGCCAT
TTTCAGAATCATCTTTTGAAGCTTTCTGTTGATGTTAACTGAGCTACTAGAGATATTCTTATTTCACTAAATGTA
AAATTTGGAGTAAATATATATGTCAATATTTAGTAAAGCTTTTCTTTTTTAATTTCCAGGAAAAAATAAAAAGAG
TATGAGTCTTCTGTAATTCATTGAGCAGTTAGCTCATTTGAGATAAAGTCAAATGCCAAACACTAGCTCTGTATT
AATCCCCATCATTACTGGTAAAGCCTCATTTGAATGTGTGAATTCAATACAGGCTATG

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FIGURE 3745

MKATIILLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLELGTN
PLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLPPSLTELHLDGNKISRVDAASLKGLNNLAKLGLSFNSISA
VDNGSLANTPHLRELHLDNNKLTRVPGGLAEHKYIQVVYLHNNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPV
QYWEIQPSTFRCVYVRSAIQLGNYK

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FIGURE 3746

GTTCCCTGGTTGTGAAAATACATGAGATAAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCC
TGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCCAGAA
GTTCCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCCAGTGTGCCCCTTCCGCTGTCAATGCCATCTTCGAGTG
GTCCAGTGTTCTGATTTGGGTCTTCCTCCTTCCCTTACGGAATTACATCTTGATGGCAACAAAATCAGCAGAGTT
GATGCAGCTAGCCTGAAAGGACTGAATAATTTGGCTAAGTTGGGATTGAGTTTCAACAGCATCTCTGCTGTTGAC
AATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAGCTTCACTTGGACAACAACAAGCTTACCAGAGTACCTGGT
GGGCTGGCAGAGCATAAGTACATCCAGGTTGTCTACCTTCATAACAACAATATCTCTGTAGTTGGATCAAGTGAC
TTCTGCCCACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGTGTGAGTCTTTTCAGCAACCCGGTCCAGTAC
TGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAAACTATAAGTAATTC
TCAAGAAAGCCCTCATTTTTATAACCTGGCAAAATCTTGTTAATGTCATTGCTAAAAAATAAATAAAAGCTAGAT
ACTGGAAACCTAACTGCAATGTGGATGTTTTACCCACATGACTTATTATGCATAAAGCCAAATTTCCAGTTTAAG
TAATTGCCTACAATAAAAAGAAATTTTGCCTGCCATTTTCAGAATCATCTTTTGAAGCTTTCTGTTGATGTTAAC
TGAGCTACTAGAGATATTCTTATTTCACTAAATGTAAAATTTGGAGTAAATATATATGTCAATATTTAGTAAAGC
TTTTCTTTTTTAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCTTCTGTAATTCATTGAGCAGTTAGCTCATTT
GAGATAAAGTCAAATGCCAAACACTAGCTCTGTATTAATCCCCATCATTACTGGTAAAGCCTCATTTGAATGTGT
GAATTCAATACAGGCTATG

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FIGURE 3747

MKATIILLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLGLPPS
LTELHLDGNKISRVDAASLKGLNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNNKLTRVPGGLAEHKYIQVV
YLHNNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPVQYWEIQPSTFRCVYVRSAIQLGNYK

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FIGURE 3748

GTTCCCTGGTTGTGAAAATACATGAGATAAATC<u>ATG</u>AAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCC
TGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCCAGAA
GTTCCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCCAGTGTGCCCCTTCCGCTGTCAATGCCATCTTCGAGTG
GTCCAGTGTTCTGATTTGGGTTGTCTACCTTCA<u>TAA</u>CAACAATATCTCTGTAGTTGGATCAAGTGACTTCTGCCC
ACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGTGTGAGTCTTTTCAGCAACCCGGTCCAGTACTGGGAGAT
ACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAAACTATAAGTAATTCTCAAGAAA
GCCCTCATTTTTATAACCTGGCAAAATCTTGTTAATGTCATTGCTAAAAAATAAATAAAAGCTAGATACTGGAAA
CCTAACTGCAATGTGGATGTTTTACCCACATGACTTATTATGCATAAAGCCAAATTTCCAGTTTAAGTAATTGCC
TACAATAAAAGAAATTTTGCCTGCCATTTTCAGAATCATCTTTTGAAGCTTTCTGTTGATGTTAACTGAGCTAC
TAGAGATATTCTTATTTCACTAAATGTAAAATTTGGAGTAAATATATATGTCAATATTTAGTAAAGCTTTTCTTT
TTTAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCTTCTGTAATTCATTGAGCAGTTAGCTCATTTGAGATAAA
GTCAAATGCCAAACACTAGCTCTGTATTAATCCCCATCATTACTGGTAAAGCCTCATTTGAATGTGTGAATTCAA
TACAGGCTATG

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FIGURE 3749

MKATIILLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLGCLPS

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FIGURE 3750

GTTCCCTGGTTGTGAAAATACATGAGATAAATC<u>ATG</u>AAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCC
TGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCCAGAA
GTTCCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCCAGTGTGCCCCTTCCGCTGTCAATGCCATCTTCGAGTG
GTCCAGTGTTCTGATTTGGGTCTGGACAAAGTGCCAAAGGATCTTCCCCCTGACACAACTCTGCTAGACCTGCAA
AACAACAAAATAACCGAAATCAAAGATGGAGACTTTAAGAACCTGAAGAACCTTCACGTTGTCTACCTTCATAAC
AACAATATCTCTGTAGTTGGATCAAGTGACTTCTGCCCACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGT
GTGAGTCTTTTCAGCAACCCGGTCCAGTACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCT
GCCATTCAACTCGGAAACTATAAG<u>TAA</u>TTCTCAAGAAAGCCCTCATTTTATAACCTGGCAAAATCTTGTTAATG
TCATTGCTAAAAAATAAATAAAAGCTAGATACTGGAAACCTAACTGCAATGTGGATGTTTTACCCACATGACTTA
TTATGCATAAAGCCAAATTTCCAGTTTAAGTAATTGCCTACAATAAAAAGAAATTTTGCCTGCCATTTTCAGAAT
CATCTTTTGAAGCTTTCTGTTGATGTTAACTGAGCTACTAGAGATATTCTTATTTCACTAAATGTAAAATTTGGA
GTAAATATATATGTCAATATTTAGTAAAGCTTTTCTTTTTTAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCT
TCTGTAATTCATTGAGCAGTTAGCTCATTTGAGATAAAGTCAAATGCCAAACACTAGCTCTGTATTAATCCCCAT
CATTACTGGTAAAGCCTCATTTGAATGTGTGAATTCAATACAGGCTATG

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FIGURE 3751

MKATIILLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLGLDKV
PKDLPPDTTLLDLQNNKITEIKDGDFKNLKNLHVVYLHNNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPVQYW
EIQPSTFRCVYVRSAIQLGNYK

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FIGURE 3752

GTATCACTCAGAATCTGGCAGCCAGTTCCGTCCTGACAGAGTTCACAGCATATATTGGTGGATTCTTGTCCATAG
TGCATCTGCTTTAAGAATTAACGAAAGCAGTGTCAAGACAGTAAGGATTCAAACCATTTGCCAAAA**ATG**AGTCTA
AGTGCATTTACTCTCTTCCTGGCATTGATTGGTGGTACCAGTGGCCAGTACTATGATTATGATTTTCCCCTATCA
ATTTATGGGCAATCATCACCAAACTGTGCACCAGAATGTAACTGCCCTGAAAGCTACCCAAGTGCCATGTACTGT
GATGAGCTGAAATTGAAAAGTGTACCAATGGTGCCTCCTGGAATCAAGTATCTTTACCTTAGGAATAACCAGATT
GACCATATTGATGAAAAGGCCTTTGAGAATGTAACTGATCTGCAGTGGCTCATTCTAGATCACAACCTTCTAGAA
AACTCCAAGATAAAAGGGAGAGTTTTCTCTAAATTGAAACAACTGAAGAAGCTGCATATAAACCACAACAACCTG
ACAGAGTCTGTGGGCCCACTTCCCAAATCTCTGGAGGATCTGCAGCTTACTCATAACAAGATCACAAAGCTGGGC
TCTTTTGAAGGATTGGTAAACCTGACCTTCATCCATCTCCAGCACAATCGGCTGAAAGAGGATGCTGTTTCAGCT
GCTTTTAAAGGTCTTAAATCACTCGAATACCTTGACTTGAGCTTCAATCAGATAGCCAGACTGCCTTCTGGTCTC
CCTGTCTCTCTTCTAACTCTCTACTTAGACAACAATAAGATCAGCAACATCCCTGATGAGTATTTCAAGCGTTTT
AATGCATTGCAGTATGTGCGTTTATCTCACAACGAACTGGCTGATAGTGGAATACCTGGAAATTCTTTCAATGTG
TCATCCCTGGTTGAGCTGGATCTGTCCTATAACAAGCTTAAAAACATACCAACTGTCAATGAAAACCTTGAAAAC
TATTACCTGGAGGTCAATCAACTTGAGAAGTTTGACATAAAGAGCTTCTGCAAGATCCTGGGGCCATTATCCTAC
TCCAAGATCAAGCATTTGCGTTTGGATGGCAATCGCATCTCAGAAACCAGTCTTCCACCGGATATGTATGAATGT
CTACGTGTTGCTAACGAAGTCACTCTTAAT**TAA**TATCTGTATCCTGGAACAATATTTTATGGTTATGTTTTTCTG
TGTGTCAGTTTTCATAGTATCCATATTTTATTACTGTTTATTACTTCCATGAATTTTAAAATCTGAGGGAAATGT
TTTGTAAACATTTATTTTTTTTAAAGAAAAGATGAAAGGCAGGCCTATTTCATCACAAGAACACACACATATACA
CGAATAGACATCAAACTCAATGCTTTATTTGTAAATTTAGTGTTTTTTTATTTCTACTGTCAAATGATGTGCAAA
ACCTTTTACTGGTTGCATGGAAATCAGCCAAGTTTTATAATCCTTAAATCTTAATGTTCCTCAAAGCTTGGATTA
AATACATATGGATGTTACTCTCTTGCACCAAATTATCTTGATACATTCAAATTTGTCTGGTTAAAAAATAGGTGG
TAGATATTGAGGCCAAGAATATTGCAAAATACATGAAGCTTCATGCACTTAAAGAAGTATTTTTAGAATAAGAAT
TTGCATACTTACCTAGTGAAACTTTTCTAGAATTATTTTTCACTCTAAGTCATGTATGTTTCTCTTTGATTATTT
GCATGTTATGTTTAATAAGCTACTAGCAAATAAAACATAGCAAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 3753

MSLSAFTLFLALIGGTSGQYYDYDFPLSIYGQSSPNCAPECNCPESYPSAMYCDELKLKSVPMVPPGIKYLYLRN
NQIDHIDEKAFENVTDLQWLILDHNLLENSKIKGRVFSKLKQLKKLHINHNNLTESVGPLPKSLEDLQLTHNKIT
KLGSFEGLVNLTFIHLQHNRLKEDAVSAAFKGLKSLEYLDLSFNQIARLPSGLPVSLLTLYLDNNKISNIPDEYF
KRFNALQYLRLSHNELADSGIPGNSFNVSSLVELDLSYNKLKNIPTVNENLENYYLEVNQLEKFDIKSFCKILGP
LSYSKIKHLRLDGNRISETSLPPDMYECLRVANEVTLN

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FIGURE 3754

GCAGAACAAAGAATACTCCACTTTTGATAGATGGGGTTACCAGGATTCAGGCTACATGGCCTGAGGCAAGGTCAC
AACATGAGTGACAGAATGTGTCCTGGAAGCCAGGCATCCTCTGGGGTGTATTTGGGGCGCTCAACAAGGCTTGAT
CGAGCTTTGGGGGTAGATCTAGCTATTCCATGGGGATTCTTTTCAGAATTGCTGTTTTCGGTAACTAATTCCATG
ACCAGGTCCATGGCATTGGATGACATTGCGCTACACTGTTGCTCACCCGGGTCACCCGTCCTCACAGGTTGGATG
GCAAGCATGTTGTGTTCGGTCACGTCAAAGAGGGCATGGACGTCGTGAAGAAAAATAGAATCTTTCGGCTCTAAG
AGTGGGAGGACATCCAAGAAGATTGTCATCACAGACTGTGGCCAGTTGAGCTAATCTGTGGCCCAGGGTGCTGGC
ATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTGGCCCGCGTTGGGCTGTCAGCCAAGGTGCCTGAAACGATAC
GTGTGCCCACTCCACTGTCACAGTGTGCCTGAGGAAGGCTGCTAGGGATGTTAGACCTCGGCCAGGACCCACCAC
ATTGCTTCCTAATACCCACCCTTCCTCACGACCTCATTTCTGGGCATCTTTGTGGACATGATGTCACCCACCCCT
TGTCAAGCATTGCCTGTGATTGCCCAGCCCAGATTCATCTGTGCCTTGGACATGGTGATGGTGATGGGTTGCCAT
CCAAGTGAAAGTCTTTTCCTTGACCAAGGGGGACAGTCAGTTTTGCAAAAGGACTCTAATACCTGTTTAATATTG
TCTTCCTAATTGGGATAATTTAATTAACAAGATTGACTAGAAGTGAAACTGCAACACTAACTTCCCCGTGCTGTG
GTGTGACCTGAGTTGGTGACACAGGCCACAGACCCCAGAGCTTGGCTTTTGAAACACAACTCAGGGCTTTTGTGA
AGGTTCCCCCGCTGAGATCTTTCCTCCTGGTTACTGTGAAGCCTGTTGGTTTGCTGCTGTCGTTTTTGAGGAGGG
CCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAACCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTG
TTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCCGGAGGGAAGCATTTCCTGGTAGGCTTTGATTTTTCTGTG
TGTTAAAGAAATTCAATCTACTCATGATGTGTTATGCATAAAACATTTCTGGAACATGGATTTGTGTTCACCTTA
AATGTGAAAATAAATCCTATTTTCTATGG

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FIGURE 3755

GGATTGAAACAAGATGGCGGGTTCGTGGTGAGAAGCCGTCAAGGAGTAGAAATTGGTATGCTTAGAAGCAGATTC
TAAAAGCAGTTTCTCTTCAGAACATCTTTTTTTCATACCACTTGATAAGCATCTTGAAACACC**ATG**GCTGTAGCTG
CAGTAAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAAATGGAGCTTTATATTGTG
TTTGTCATAAATCTACGTATTCTCCTCTACCAGATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCTGATG
GCAGGACAATAGTATGCTACCACCCTTCTGTGGACATTCCATATGAACACACAAAACCTATCCCTCGGCCAGATC
CTGTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTTGAACACCTTGAGG
AAGGACCTATGATAGAACAACTTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCCTCATGGACGGTATC
ACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGA**TGA**TGCGGAGGTTCCTGGGGGAATCAAAGAGAAATGT
GCCTCATTTGCCATTTGAGAAAATGCAGTCTGGTGTATTCAGTAATATATAGTAAAGTAATAATGATAAAATATC
TTTTCATATATTAGAATGTGTACTTTTATATAAAGTAATTCTGGATTTGACATTCTCATTTAGAGAAACCTATTT
TCTTTTTTCTTTTTCTATTTTAGTGTTTCATTTATGTGCGGTCTCCAATTTAGGACTTTTCCATAGTGCCAAAGC
CATACATATTCAGTAGAACATCAATAAATTACATCAGAAATTCAACACTTTATTATAAAACGGGCTTCGTGTTAG
ATAATTTTGCTAAACAGTAGGCTACTGTAAGTGTTCTGAGCATATTTAAGACAGGCTAGCATTTTCAATTTACAA
TATTTTCAACTGATAGTAGGTTTATTGGGATGTAACCCTATGATAAGTTGAGAAACATCTCTTTTTGTGTGTCTA
CTGTGATTTAAGTATTTTTAATCATCAGCCAAGCATTGTTAGTAGTATAAATATGATTAATAAAAATGTGCATGG
CTTTCCT

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FIGURE 3756

MAVAAVKWVMSKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYNCNVELALTSDGRTIVCYHPSVDIPYEHTKPI
PRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTTKHRWYPHGRYHRCRKNLNPPKDR

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FIGURE 3757

AGCCGCGGCCTCAACTAAAAGTGGCCATTGACCTTTCAAGCTTTCGAGCAGTGATGCAATAGAATAGTATTTCAA
AGAAAAATGCTTATCGAAATTTTGGATCCGGTTTTCCCGTGATTGTTAAGGGTTTCTTTTAAAAAGTAGGTCACA
TTTCAAGTAGGTCATATTTCGGGGGCGGGTGCGCAGACAAGGAGATGAGTTTCCACTAAGGCCAGGGGGCCTCCA
ACGGGGTTGGAGGTGAGAATCCCAGGTAGGGTAGAGGTGCCGAGATCCTTCCGAATCCCAGCCCTGGGGCGTCAG
CCCTGCAGGGAATGGCAGAGACACTCTCCGGACTGAGGGAACCGAGGCCAGTCACCAAGCCCCTTCCGGGCGCGC
AGGCGATCAGTGGGTGACCGCGGCTGCGAGGGACTTTGTCATCCGTCCTCCAGGATCTGGGGAGAAAGAGCCCCA
TCCCTTCTCTCTCTGCCACCATTTCGGACACCCCGCAGGGACTCGTTTTGGGATTCGCACTGACTTCAAGGAAGG
ACGCGAACCCTTCTCTGACCCCAGCTCGGGCGGCCACCTGTCTTTGCCGCGGTGACCCTTCTCTC**ATG**ACCCTGC
GGTGCCTTGAGCCCTCCGGGAATGGCGGGGAAGGGACGCGGAGCCAGTGGGGGACCGCGGGGTCGGCGGAGGAGC
CATCCCCGCAGGCGGCGCGTCTGGCGAAGGCCCTGCGGGAGCTCGGTCAGACAGGATGGTACTGGGGAAGTATGA
CTGTTAATGAAGCCAAAGAGAAATTAAAAGAGGCACCAGAAGGAACTTTCTTGATTAGAGATAGCTCGCATTCAG
ACTACCTACTAACAATATCTGTTAAAACATCAGCTGGACCAACTAATCTTCGAATCGAATACCAAGACGGAAAAT
TCAGATTGGACTCTATCATATGTGTCAAATCCAAGCTTAAACAATTTGACAGTGTGGTTCATCTGATCGACTACT
ATGTTCAGATGTGCAAGGATAAGCGGACAGGTCCAGAAGCCCCCCGGAACGGCACTGTTCACCTTTATCTGACCA
AACCGCTCTACACGTCAGCACCATCTCTGCAGCATCTCTGTAGGCTCACCATTAACAAATGTACCGGTGCCATCT
GGGGACTGCCTTTACCAACAAGACTAAAAGATTACTTGGAAGAATATAAATTCCAGGTA**TAAA**TGTTTCTCTTTT
TTTAAACATGTCTCACATAGAGTATCTCCGAATGCAGCTATGTAAAAGAGAACCAAAACTTGAGTGCTCTGGATA
ACTATATGGAATGCTTTCTAAGAACAGCTGAAGCTAATCTAATTTAAATTTAACAGCTTGAAGAGGTAGCTAGGT
GTTTAAAGTTCCTCCAGATACTTTTACCTGAGTGATGCTTCCCTTCCTAAGGCTGACCAAGACCTGTTGATCCTT
TTAGATTAAAAATAAAATGTCGCATGTAAAGGCTGAAGTCGCGTTTTATCAGAATGCCTTGCCTTCTTAGGTTCT
TTTCCATTATGTCAAAGGTCCAGGCTCCAGTAGGAGAGAAAGAACTCCTCATAGGAATACTGAAGAAGTGGGAAG
GAACCAAGCTGACACAGGCCTCACTGCAATTTGATATGCCTGCTGATCAGAGTCTCTTGGGCATTTTATATTTTG
CATTCTGATGTACCTAGGAGTTTTGTTAAACAGATGATGTATGTGAGTATTTATCCCATTTTATGCAATTAACCA
AATCAACCAAAAAAAGTGACCATGAAGTCCTGTATTTGTCTTTTTACTACATGTAGGAACTCTCATGTGAATGAG
TACTGTAGTAATCCATTCTATGGGAGCCTTATTTCAGAAATATTTCAAACTGGTGCAAATGGAAAAGACTTTCTC
TTTTCCTTTAAAGCTAAAGACAAGAATATCATGCTATACAGGTGCAACTCAATCCCCGTTAATAAAAACCAATGT
AGGTATAGGCATTCTACCCTTTGAAATAGCTGTGTCCCAACCTGTTGCCATTGATTTTTTGGAAATGGCTTTAGA
AATATCCAAGTTGTCCTTGAATTGTCTAACCATGGACATAAACAGTTGTCTCCCTTCTACTGTGTAGAATACTTT
GACTTAATTTTCTTCCAGATACAGGGGGATACCTGCCTGTTTTTCAAAGTGTTTATTTACTGCTGTTACTATTTG
ATTAGAATGTATTAAATAAAAAAAACCTGATTTCT

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FIGURE 3758

MTLRCLEPSGNGGEGTRSQWGTAGSAEEPSPQAARLAKALRELGQTGWYWGSMTVNEAKEKLKEAPEGTFLIRDS
SHSDYLLTISVKTSAGPTNLRIEYQDGKFRLDSIICVKSKLKQFDSVVHLIDYYVQMCKDKRTGPEAPRNGTVHL
YLTKPLYTSAPSLQHLCRLTINKCTGAIWGLPLPTRLKDYLEEYKFQV

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FIGURE 3759

GGTGCCGCATCCCCAGCCCGCCGCC<u>ATG</u>GCCGCCTACAAACTGGTGCTGATCCGGCACGGCGAGAGCGCATGGAA
CCTGGAGAACCGCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCGGCGGGCCACGAGGAGGCGAAGCGCGGCGG
GCAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTCACCTCAGTGCAGAAGAGAGCGATCCGGACCCT
CTGGACAGTGCTAGATGCCATTGATCAGATGTGGCTGCCAGTGGTGAGGACTTGGCGCCTCAATGAGCGGCACTA
TGGGGGTCTAACCGGTCTCAATAAAGCAGAAACTGCTGCAAAGCATGGTGAGGCCCAGGTGAAGATCTGGAGGCG
CTCCTATGATGTCCCACCACCTCCGATGGAGCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCGTAGGTA
TGCAGACCTCACAGAAGATCAGCTACCCTCCTGTGAGAGTCTGAAGGATACTATTGCCAGAGCTCTGCCCTTCTG
GAATGAAGAAATAGTTCCCCAGATCAAGGAGGGGAAACGTGTACTGATTGCAGCCCATGGCAACAGCCTCCGGGG
CATTGTCAAGCATCTGGAGGGTCTCTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCCCATTGT
CTATGAATTGGACAAGAACTTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGATGAAGAGACGGTGCGCAAAGC
CATGGAAGCTGTGGCTGCCCAGGGCAAGGCCAAGAAG<u>TGA</u>AGGCCGGCGGGGAGGATACTGTCCCCAGGAGCACC
CTCCCTGCCCGTCTTGTCCCTCTGCCCCTCCCACCTGCACATGTCACACTGACCACATCTGTAGACATCTTGAGT
TGTAGCTGCAGATGGGGACCAGTGGCTCCCATTTTCATTTTAGCCATTTTGTCGCCTGCACCCACTCCCTTCATA
CAATCTAGTCAGAATAGCAGTTCTAGAGCACAGGTTCTCAGTCTAAGCTATGGAAAAGCTCCCCTTATCCAACAG
AGTTTAAAAGTAGTGACTTGGGTTTTTGCGAGTGCTTTGTTTACTAAGGACTTTGGGGAGGAACCATGCTAAGCC
ATGACCAGTGAGGAGAAGCAACAGAGCCTGTCTGTCCCCATGAGCGGAGTCTGTCCTCTGCTCTTCTGCAGTCAG
GCCACTGCCTACTGCCTGGGGGCTCTAGTCATTCCAGTGGAAGACGAATGTAACCTGCGTGGTGATGTGACAACT
GTTTCCTCCCTGACCCCAGAGGATCTGGCTCTAGGTTGGGATCAATCCTGAATTTCGTTATGTGTTAATTTACTT
TTATTAAAAAGTATAGTATATATAAATAATACAAAACAATAACCCTTCTGGGGTTTCTTGTGGCGGTTGAAATA
GTCCCACATGTGGTCATCAGAAAATAAGCCATTCCTCATACCAATATAGGATCAGCTCCTTGACCTCTGAGGGGC
AGGAGTGCTTCCTGGTGTGTGTATTAGAATCCCTTCCTGCCTTGTTTCATGGCAGTGAAATGCCTCTTGGTCCTG
TCCAAGTGTATCTTTCACTGATTTCTGAATCATGTTCTAGTTGCTTGACCCTGCCACATGGGTCCAGTGTTCATC
TGAGCATAACTGTACTAAATCCTTTTTCCATATCAGTATAATAAAGGAGTGATGTGCAA

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FIGURE 3760

MAAYKLVLIRHGESAWNLENRFSGWYDADLSPAGHEEAKRGGQALRDAGYEFDICFTSVQKRAIRTLWTVLDAID
QMWLPVVRTWRLNERHYGGLTGLNKAETAAKHGEAQVKIWRRSYDVPPPPMEPDHPFYSNISKDRRYADLTEDQL
PSCESLKDTIARALPFWNEEIVPQIKEGKRVLIAAHGNSLRGIVKHLEGLSEEAIMELNLPTGIPIVYELDKNLK
PIKPMQFLGDEETVRKAMEAVAAQGKAKK

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FIGURE 3761

GGCCATTTCTCTTGAAACTGCGGCTCGGGACCTGCGGTACCTGCTGTAGTCACGAGGGACGGGCGGCGGCCTGGT
CGGCAGAGAGTAGCCTGCAACATTCGGCCGTGXXXXXXXXXAGTTTACCCCTCAATCCCAAACCTTTCCTCAATG
GACTAACAGGAAAGCCAGTGATGGTGAAACTTAAGTGGGGAATGGAGTACAAGGGCTATCTGGTATCTGTAGATG
GCTACATGAACATGCAGCTTGCAAATACAGAAGAATACATAGATGGAGCTTTGTCTGGACATCTGGGTGAAGTTT
TAATAAGGTGTAATAATGTCCTTTATATCAGAGGTGTGGAAGAAGAGGAAGAAGATGGGGAAATGAGAGAA**TAG**C
ATCTTTTGTGGGGGATTTTTTTTATATATATTTCTAGACAATAAAGATTTGTTTGTTTTTCAACTTG

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FIGURE 3762

XSLPLNPKPFLNGLTGKPVMVKLKWGMEYKGYLVSVDGYMNMQLANTEEYIDGALSGHLGEVLIRCNNVLYIRGV
EEEEEDGEMRE

FIGURE 3763

CTCTATCGACGAGTCTGGTAGCTGAGCGTTGGGCTGTAGGTCGCTGTGCTGTGTGATCCCCCAGAGCC**ATG**CCCG
AGATAGTGGATACCTGTTCGTTGGCCTCTCCGGCTTCCGTCTGCCGGACCAAGCACCTGCACCTGCGCTGCAGCG
TCGACTTTACTCGCCGGACGCTGACCGGGACTGCTGCTCTCACGGTCCAGTCTCAGGAGGACAATCTGCGCAGCC
TGGTTTTGGATACAAAGGACCTTACAATAGAAAAAGTAGTGATCAATGGACAAGAAGTCAAATATGCTCTTGGAG
AAAGACAAAGTTACAAGGGATCGCCAATGGAAATCTCTCTTCCTATCGCTTTGAGCAAAAATCAAGAAATTGTTA
TAGAAATTTCTTTTGAGACCTCTCCAAAATCTTCTGCTCTCCAGTGGCTCACTCCTGAACAGACTTCTGGGAAGG
AACACCCATATCTCTTTAGTCAGTGCCAGGCCATCCACTGCAGAGCAATCCTTCCTTGTCAGGACACTCCTTCTG
TGAAATTAACCTATACTGCAGAGGTGTCTGTCCCTAAAGAACTGGTGGCACTTATGAGTGCTATTCGTGATGGAG
AAACACCTGACCCAGAAGACCCAAGCAGGAAAATATACAAATTCATCCAAAAAGTTCCAATACCCTGCTACCTGA
TTGCTTTAGTTGTTGGAGCTTTAGAAAGCAGGCAAATTGGCCCAAGAACTTTGGTGTGGTCTGAGAAAGAGCAGG
TGGAAAAGTCTGCTTATGAGTTTTCTGAGACTGAATCTATGCTTAAAATAGCAGAAGATCTGGGAGGACCGTATG
TATGGGGACAGTATGACCTATTGGTCCTGCCACCATCCTTCCCTTATGGTGGCATGGAGAATCCTTGCCTTACTT
TTGTAACTCCTACTCTACTGGCAGGCGACAAGTCACTCTCCAATGTCATTGCACATGAAATATCTCATAGCTGGA
CAGGGAATCTAGTGACCAACAAAACTTGGGATCACTTTTGGTTAAATGAGGGACATACTGTGTACTTGGAACGCC
ACATTTGCGGACGATTGTTTGGTGAAAAGTTCAGACATTTTAATGCTCTGGGAGGATGGGGAGAACTACAGAATT
CGGTAAAGACATTTGGGGAGACACATCCTTTCACCAAACTTGTGGTTGATCTGACAGATATAGACCCTGATGTAG
CTTATTCTTCAGTTCCCTATGAGAAGGGCTTTGCTTTACTTTTTTTACCTTGAACAACTGCTTGGAGGACCAGAGA
TTTTCCTAGGATTCTTAAAAGCTTATGTTGAGAAGTTTTCCTATAAGAGCATAACTACTGATGACTGGAAGGATT
TCCTGTATTCCTATTTTAAAGATAAGGTTGATGTTCTCAATCAAGTTGATTGGAATGCCTGGCTCTACTCTCCTG
GACTGCCTCCCATAAAGCCCAATTATGATATGACTCTGACAAATGCTTGTATTGCCTTAAGTCAAAGATGGATTA
CTGCCAAAGAAGATGATTTAAATTCATTCAATGCCACAGACCTGAAGGATCTCTCTTCTCATCAATTGAATGAGT
TTTTAGCACAGACGCTCCAGAGGGCACCTCTTCCATTGGGGCACATAAAGCGAATGCAAGAGGTGTACAACTTCA
ATGCCATTAACAATTCTGAAATACGATTCAGATGGCTGCGGCTCTGCATTCAATCCAAGTGGGAGGACGCAATTC
CTTTGGCGCTAAAGATGGCAACTGAACAAGGAAGAATGAAGTTTACCCGGCCCTTATTCAAGGATCTTGCTGCCT
TTGACAAATCCCATGATCAAGCTGTCCGAACCTACCAAGAGCACAAAGCAAGCATGCATCCCGTGACTGCAATGC
TGGTGGGGAAAGACTTAAAAGTGGAT**TAA**AGACCTGCGTATTGATGATTTTAGAGATTTCTCTTTTTTAAATGGA
ATTCGTAAAGAAATATAAAACTTCAGCTCACAATTAAAACTGTCTTTTTAGTTTTGGCTTTTTATTGTTTTGTTG
GTGATTTTACTGAAATAAAGATGAGCTACTTCTTC

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FIGURE 3764

MPEIVDTCSLASPASVCRTKHLHLRCSVDFTRRTLTGTAALTVQSQEDNLRSLVLDTKDLTIEKVVINGQEVKYA
LGERQSYKGSPMEISLPIALSKNQEIVIEISFETSPKSSALQWLTPEQTSGKEHPYLFSQCQAIHCRAILPCQDT
PSVKLTYTAEVSVPKELVALMSAIRDGETPDPEDPSRKIYKFIQKVPIPCYLIALVVGALESRQIGPRTLVWSEK
EQVEKSAYEFSETESMLKIAEDLGGPYVWGQYDLLVLPPSFPYGGMENPCLTFVTPTLLAGDKSLSNVIAHEISH
SWTGNLVTNKTWDHFWLNEGHTVYLERHICGRLFGEKFRHFNALGGWGELQNSVKTFGETHPFTKLVVDLTDIDP
DVAYSSVPYEKGFALLFYLEQLLGGPEIFLGFLKAYVEKFSYKSITTDDWKDFLYSYFKDKVDVLNQVDWNAWLY
SPGLPPIKPNYDMTLTNACIALSQRWITAKEDDLNSFNATDLKDLSSHQLNEFLAQTLQRAPLPLGHIKRMQEVY
NFNAINNSEIRFRWLRLCIQSKWEDAIPLALKMATEQGRMKFTRPLFKDLAAFDKSHDQAVRTYQEHKASMHPVT
AMLVGKDLKVD

4080/6881
FIGURE 3765

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GCAACCTTTCCAAGGGAGTGGTTGTGTGATCGCCATCTTAGGGAAAAGATGTTCTCGTCCGTGGCGCACCTGGCG
CGGGCGAACCCCTTCAACACGCCACATCTGCAGCTGGTGCACGATGGTCTCGGGGACCTCCGCAGCAGCTCCCCA
GGGCCCACGGGCCAGCCCCGCCGCCCTCGCAACCTGGCAGCCGCCGCCGTGGAAGAGTACAGTTGTGAATTTGGC
TCCGCGAAGTATTATGCACTGTGTGGCTTTGGTGGGGTCTTAAGTTGTGGTCTGACACACACTGCTGTGGTTCCC
CTGGATTTAGTGAAATGCCGTATGCAGGTGGACCCCCAAAAGTACAAGGGCATATTTAACGGATTCTCAGTTACA
CTTAAAGAGGATGGTGTTCGTGGTTTGGCTAAAGGATGGGCTCCGACTTTCCTTGGCTACTCCATGCAGGGACTC
TGCAAGTTTGGCTTTTATGAAGTCTTTAAAGTCTTGTATAGCAATATGCTTGGAGAGGAGAATACTTATCTCTGG
CGCACATCACTATATTTGGCTGCCTCTGCCAGTGCTGAATTCTTTGCTGACATTGCCCTGGCTCCTATGGAAGCT
GCTAAGGTTCGAATTCAAACCCAGCCAGGTTATGCCAACACTTTGAGGGATGCAGCTCCCAAAATGTATAAGGAA
GAAGGCCTAAAAGCATTCTACAAGGGGGTTGCTCCTCTCTGGATGAGACAGATACCATACACCATGATGAAGTTC
GCCTGCTTTGAACGTACTGTTGAAGCACTGTACAAGTTTGTGGTTCCTAAGCCCCGCAGTGAATGTTCAAAGCCA
GAGCAGCTGGTTGTAACATTTGTAGCAGGTTACATAGCTGGAGTCTTTTGTGCAATTGTTTCTCACCCTGCTGAT
TCTGTGGTATCTGTGTTGAATAAAGAAAAAGGTAGCAGTGCTTCTCTGGTCCTCAAGAGACTTGGATTTAAAGGT
GTATGGAAGGGACTGTTTGCCCGTATCATCATGATTGGTACCCTGACTGCACTACAGTGGTTTATCTATGACTCC
GTGAAGGTCTACTTCAGACTTCCTCGCCCTCCTCCACCCGAGATGCCAGAGTCTCTGAAGAAGAAGCTTGGGTTA
ACTCAGTAGTTAGATCAAAGCAAATGTGGACTGAATCTGCTTGTTGATCAGTGTTGAAGAAAGTGCAAAAGGAAC
TTTTATATATTTGACAGTGTAGGAAATTGTCTATTCCTGATATAATTACTGTAGTACTCTTGCTTAAGGCAAGAG
TTTCAGATTTACTGTTGAAATAAACCCAACTCTTCATG
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FIGURE 3766

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GCACACTGAAGAGTACGTCTTCGGGTCTACCCCTAATCACATAATGGCTGTGTTTAATCAGAAGTCTGTCTCGGA
TATGATTAAAGAGTTTCGAAAAAATTGGCGTGCTCTTTGTAACTCTGAGAGAACCACTCTATGTGGTGCAGACTC
CATGCTCTTGGCATTGCAGCTTTCTATGGCGGAGAACAACAAACAGTGGAGAATTTACAGTCTCTCTCAGTGATG
TTTTATTGACATGGAAATACTTGCTCCATGAGAAATTGAACTTACCAGTTGAAAACATGGACGTGACTGACCATT
ATGAGGACGTTAGGAAGATTTATGATGATTTCTTGAAGAACAGTAATATGTTAGATCTGATTGATGTTTATCAAA
AATGTAGGGCTTTGACTTCTAATTGTGAAAATTATAACACAGTATCTCCTAGTCAACTACTGGATTTTCTGTCTG
GCAAACAGTATGCAGTAGGTGATGAAACTGATCTTTCTATACCAACATCACCAACAAGTAAATACAACCGTGATA
ATGAAAGGTGCAGCTGCTAGCAAGGAAAATTATCTTTTCATATTTAAATCTGCTAGTGAATTCAAAGAATGACC
TGGCTGTGGCTTATATTCTCAATATTCCTGATAGAGGACTAGGAAGAGAAGCCTTCACTGATTTGAAACATGCTG
CTCGAGAGAAACAAATGTCTATCTTTTTGGTGGCCACGTCTTTTATTAGAACAATAGAGCTTGGAGGGAAAGGAT
ATGCACCACCACCATCAGATCCTTTAAGGACACATGTAAAGGGATTGTCTAATTTTATTAATTTCATTGACAAAT
TAGATGAGATTCTTGGAGAAATACCAAACCCAAGCATTGCAGGGGGTCAAATACTGTCAGTGATAAAGATGCAAC
TGATTAAAGGCCAAAACAGCAGGGATCCTTTTTGCAAAGCAATAGAGGAAGTTGCTCAGGATTTGGATTTGAGGA
TTAAAAATATTATCAATTCTCAAGAAGGTGTTGTAGCTCTTAGCACCACTGACATCAGTCCTGCTCGGCCAAAAT
CTCATGCCATAAACCATGGTACTGCATACTGTGGCAGAGATACTGTGAAAGCCTTATTAGTTCTTTTGGACGAAG
AAGCAGCTAATGCTCCTACCAAAAACAAAGCAGAGCTTTTATATGATGAGGAAAACACAATCCATCATCATGGAA
CGTCTATTCTTACACTTTTTAGGTCTCCCACACAGGTGAATAATTCGATAAAACCCCTAAGAGAACGCATCTGTG
TGTCAATGCAAGAGAAAAAAATTAAGATGAAGCAAACTTTAATTAGATCCCAATTTGCTTGTACTTATAAAGATG
ACTACATGATAAGCAAGGATAATTGGAATAATGTTAATTTAGCATCAAAGCCTTTGTGTGTTCTTTACATGGAAA
ATGACCTTTCTGAGGGTGTAAATCCATCTGTTGGAAGATCAACAATTGGAACGAGTTTTGGAAATGTTCATCTGG
ACAGAAGTAAAAATGAAAAAGTATCAAGAAATCAACCAGTCAGACAGGAAATAAAAGCTCAAAAAGGAAACAGG
TGGATTTGGATGGTGAAAATATTCTCTGTGATAATAGAAATGAACCACCTCAACATAAAAATGCTAAAATACCTA
AGAAATCAAATGATTCACAGAATAGATTGTACGGCAAACTAGCTAAAGTAGCAAAAAGTAATAAATGTACTGCCA
AGGACAAGTTGATTTCTGGCCAGGCAAAGTTAACTCAGTTTTTTAGACTATAAATTTGTGTCTTATATGCTTTAG
GTTTATGTATCTATAAACCATTCACCAAAGACATGCTTAATTTTTAAGAGATCAAGGTGTAAATTATGATGATTT
ATTATTTTGGTCTACAGTGTATGTAAGGTTAGTATGTTAAGCACTGTTTTTGACTTTTTAAAAATACCTTAGATG
CAAATTTATAGGAGAAAAAACACTTTCAGATAAGAGGTGTTTGCTGGGATGGAAGAACTACCTGGCATGTAAGAA
ATATCGTCAGTCGTCCTAATGCATATTGTGACTGTTTGCATATACTTCTGTTTATAAAGTATCAGTTTTACTTT
TCAGAGGATTTGTAAGAATCATTTAAATTTTCATTGAAATAAACGACAAGTCACATTG
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4082/6881
FIGURE 3767

<u>ATG</u>GCAAGCCAAGCGTTTAGAAAGTTTCTTCCACTCCTTGACCGAGTTTTGGTTGAAAGGCGTGCTGCTGAAACT
GTAACCAAAGGAGGCATTATGCTTCCAGAAAAATCTCAAGGAAAATTATTGCAAGCAAGAGGTAGAGAGATTCAA
CCAGTTAGCGTGAAAGTTGGAGATAAAGTTCTTCTCCCAGAATATGGAGGCACCAAAGTAGTTCTAGATGACAAG
GATTATTTCCTATTTAGAGATGGTGACATTCTTAGAAAGTACGTAGAC<u>TGA</u>

4083/6881
FIGURE 3768

MASQAFRKFLPLLDRVLVERRAAETVTKGGIMLPEKSQGKLLQARGREIQPVSVKVGDKVLLPEYGGTKVVLDDK
DYFLFRDGDILRKYVD

4084/6881
FIGURE 3769

CCGAGACCCGGCGCAAGAGAGCGCAGCCTTAGTAGGAGAGGAACGCGAGACGCGGCAGAGCGCGTTCAGCACTGA
CTTTTGCTGCTGCTTCTGCTTTTTTTTTTTCTTAGAAACAAGAAGGCGCCAGCGGCAGCCTCACACGCGAGCGCCA
CGCGAGGCTCCCGAAGCCAACCCGCGAAGGGAGGAGGGGGAGGGAGGAGGAGGCGGCGTGCAGGGAGGAGAAAAAG
CATTTTCACTTTTTTTGCTCCCACTCTAAGAAGTCTCCCGGGGATTTTGTATATATTTTTTAACTTCCGTCAGGG
CTCCCGCTTCATATTTCCTTTTCTTTCCCTCTCTGTTCCTGCACCCAAGTTCTCTCTGTGTCCCCCTCGCGGGCC
CCGCACCTCGCGTCCCGGATCGCTCTGATTCCGCGACTCCTTGGCCGCCGCTGCGC<u>ATG</u>GAAAGCTCTGCCAAGA
TGGAGAGCGGCGGCGCCGGCCAGCAGCCCCAGCCGCAGCCCCAGCAGCCCTTCCTGCCGCCCGCAGCCTGTTTCT
TTGCCACGGCCGCAGCCGCGGCGGCCGCAGCCGCCGCAGCGGCAGCGCAGAGCGCGCAGCAGCAGCAGCAGCAGC
AGCAGCAGCAGCAGGCGCCGCAGCTGAGACCGGCGGCCGACGGCCAGCCCTCAGGGGGCGGTCACAAGTCAG
CGCCCAAGCAAGTCAAGCGACAGCGCTCGTCTTCGCCCGAACTGATGCGCTGCAAACGCCGGCTCAACTTCAGCG
GCTTTGGCTACAGCCTGCCGCAGCAGCAGCCGGCCGCCGTGGCGCGCCGCAACGAGCGCGAGCGCAACCGCGTCA
AGTTGGTCAACCTGGGCTTTGCCACCCTTCGGGAGCACGTCCCCAACGGCGCGGCCAACAAGAAGATGAGTAAGG
TGGAGACACTGCGCTCGGCGGTCGAGTACATCCGCGCGCTGCAGCAGCTGCTGGACGAGCATGACGCGGTGAGCG
CCGCCTTCCAGGCAGGCGTCCTGTCGCCCACCATCTCCCCCAACTACTCCAACGACTTGAACTCCATGGCCGGCT
CGCCGGTCTCATCCTACTCGTCGGACGAGGGCTCTTACGACCCGCTCAGCCCCGAGGAGCAGGAGCTTCTCGACT
TCACCAACTGGTTC<u>TGA</u>GGGGCTCGGCCTGGTCAGGĊCCTGGTGCGAATGGACTTTGGAAGCAGGGTGATCGCAC
AACCTGCATCTTTAGTGCTTTCTTGTCAGTGGCGTTGGGAGGGGGAGAAAAGGAAAAGAAAAAAAAAAGAAGAAG
AAGAAGAAAAGAGAAGAAGAAAAAAAACGAAAACAGTCAACCAACCCCATCGCCAACTAAGCGAGGCATGCCTGAG
AGACATGGCTTTCAGAAAACGGGAAGCGCTCAGAACAGTATCTTTGCACTCCAATCATTCACGGAGATATGAAGA
GCAACTGGGACCTGAGTCAATGCGCAAAATGCAGCTTGTGTGCAAAAGCAGTGGGCTCCTGGCAGAAGGGAGCAG
CACACGCGTTATAGTAACTCCCATCACCTCTAACACGCACAGCTGAAAGTTCTTGCTCGGGTCCCTTCACCTCCT
CGCCCTTTCTTAAAGTGCAGTTCTTAGCCCTCTAGAAACGAGTTGGTGTCTTTC

4085/6881
FIGURE 3770

MESSAKMESGGAGQQPQPQPQQPFLPPAACFFATAAAAAAAAAAAAAAQSAQQQQQQQQQQQQQAPQLRPAADGQPS
GGGHKSAPKQVKRQRSSSPELMRCKRRLNFSGFGYSLPQQQPAAVARRNERERNRVKLVNLGFATLREHVPNGAA
NKKMSKVETLRSAVEYIRALQQLLDEHDAVSAAFQAGVLSPTISPNYSNDLNSMAGSPVSSYSSDEGSYDPLSPE
EQELLDFTNWF

4086/6881
FIGURE 3771A

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GGTCGAGTCCTGAAGGAGGGCCTGATGTCTTCATCATTCTCAAATTCTTGTAAGCTCTGCGTCGGGTGAAACCAG
ACAAAGCCGCGAGCCCAGGGATGGGAGCACGCGGGGGACGGCCTGCCGGCGGGGACGACAGCATTGCGCCTGGGT
GCAGCAGTGTGCGTCTCGGGGAAGGGAAGATATTTTAAGGCGTGTCTGAGCAGACGGGGAGGCTTTTCCAAACCC
AGGCAGCTTCGTGGCGTGTGCGGTTTCGACCCGGTCACACAAAGCTTCAGCATGTCATGTGAGGACGGTCGGGCC
CTGGAAGGAACGCTCTCGGAATTGGCCGCGGAAACCGATCTGCCCGTTGTGTTTGTGAAACAGAGAAAGATAGGC
GGCCATGGTCCAACCTTGAAGGCTTATCAGGAGGGCAGACTTCAAAAGCTACTAAAAATGAACGGCCCTGAAGAT
CTTCCCAAGTCCTATGACTATGACCTTATCATCATTGGAGGTGGCTCAGGAGGTCTGGCAGCTGCTAAGGAGGCA
GCCCAATATGGCAAGAAGGTGATGGTCCTGGACTTTGTCACTCCCACCCCTCTTGGAACTAGATGGGGTCTCGGA
GGAACATGTGTGAATGTGGGTTGCATACCTAAAAAACTGATGCATCAAGCAGCTTTGTTAGGACAAGCCCTGCAA
GACTCTCGAAATTATGGATGGAAAGTCGAGGAGACAGTTAAGCATGATTGGGACAGAATGATAGAAGCTGTACAG
AATCACATTGGCTCTTTGAATTGGGGCTACCGAGTAGCTCTGCGGGAGAAAAAAGTCGTCTATGAGAATGCTTAT
GGGCAATTTATTGGTCCTCACAGGATTAAGGCAACAAATAATAAAGGCAAAGAAAAAATTTATTCAGCAGAGAGA
TTTCTCATTGCCACTGGTGAAAGACCACGTTACTTGGGCATCCCTGGTGACAAAGAATACTGCATCAGCAGTGAT
GATCTTTTCTCCTTGCCTTACTGCCCGGGTAAGACCCTGGTTGTTGGAGCATCCTATGTCGCTTTGGAGTGCGCT
GGATTTCTTGCTGGTATTGGTTTAGACGTCACTGTTATGGTTAGGTCCATTCTTCTTAGAGGATTTGACCAGGAC
ATGGCCAACAAAATTGGTGAACACATGGAAGAACATGGCATCAAGTTTATAAGACAGTTCGTACCAATTAAAGTT
GAACAAATTGAAGCAGGGACACCAGGCCGACTCAGAGTAGTAGCTCAGTCCACCAATAGTGAGGAAATCATTGAA
GGAGAATATAATACGGTGATGCTGGCAATAGGAAGAGATGCTTGCACAAGAAAAATTGGCTTAGAAACCGTAGGG
GTGAAGATAAATGAAAAGACTGGAAAAATACCTGTCACAGATGAAGAACAGACCAATGTGCCTTACATCTATGCC
ATTGGCGATATATTGGAGGATAAGGTGGAGCTCACCCCAGTTGCAATCCAGGCAGGAAGATTGCTGGCTCAGAGG
CTCTATGCAGGTTCCACTGTCAAGGTGACTATGAAAATGTTCCAACCACTGTATTTACTCCTTTGGAATATGGTG
CTTGTGGCCTTTCTGAGGAGAAAGCTGTGGAGAAGTTTGGGGAAGAAAATATTGAGGTTTACCATAGTTACTTTT
GGCCATTGGAATGGACGATTCCGTCAAGAGATAACAACAAATGTTATGCAAAAATAATCTGTAATACTAAAGACA
ATGAACGTGTTGTGGGCTTTCACGTACTGGGTCCAAATGCTGGAGAAGTTACACAAGGCTTTGCAGCTGCGCTCA
AATGTGGACTGACCAAAAAGCAGCTGGACAGCACAATTGGAATCCACCCTGTCTGTGCAGAGGTATTCACAACAT
TGTCTGTGACCAAGCGCTCTGGGGCAAGCATCCTCCAGGCTGGCTGCTGAGGTTAAGCCCCAGTGTGGATGCTGT
TGCCAAGACTGCAAACCACTGGCTCGTTTCCGTGCCCAAATCCAAGGCGAAGTTTTCTAGAGGGTTCTTGGGCTC
TTGGCACCTGCGTGTCCTGTGCTTACCACCGCCCAAGGCCCCCTTGGATCTCTTGGATAGGAGTTGGTGAATAGA
AGGCAGGCAGCATCACACTGGGGTCACTGACAGACTTGAAGCTGACATTTGGCAGGGCATCGAAGGGATGCATCC
ATGAAGTCACCAGTCTCAAGCCCATGTGGTAGGCGGTGATGGAACAACTGTCAAATCAGTTTTAGCATGACCTTT
CCTTGTGGATTTTCTTATTCTCGTTGTCAAGTTTTCTAGGGTTGAATTTTTTTCTTTTTTCTCCATGGTGTTAAT
GATATTAGAGATGAAAAACGTTAGCAGTTGATTTTTGTCCAAAAGCAAGTCATGGCTAGAGTATCCATGCAAGGT
GTCTTGTTGCATGGAAGGGATAGTTTGGCTCCCTTGGAGGCTATGTAGGCTTGTCCCGGGAAAGAGAACTGTCCT
GCAGCTGAAATGGACTGTTCTTTACTGACCTGCTCAGCAGTTTCTTCTCTCATATATTCCCAAAACAAGTACATC
TGCGATCAACTCTAGCCAAATTTGCCCCTGTGTGCTACATGATGGATGATTATTATTTTAAGGTCTGTTTAGGAA
GGGAAATGGCTACTTGGCCAGCCATTGCCTGGCATTTGGTAGTATAGTATGATTCTCACCATTATTTGTCATGGA
GGCAGACATACACCAGAAATGGGGGAGAAACAGTACATATCTTTCTGTCTTTAGTTTATTGTGTGCTGGTCTAAG
CAAGCTGAGATCATTTGCAATGGAAAACACGTAACTTGTTTAAAAGTTTTTCTGGTAGCTTTAGCTTTATGCTAA
AAAAAATAATGACATTGGGTATCTATTTCTTTCTAAGACTACATTAGTAGGAAATAAGTCTTTTCATGCTTATG
ATTTAGCTGTTTTGTGGTAATTGCTTTTTAAAGGAAGTTATTAATATCATAAGTTATTATTAATATTTTGAACAC
AGGTGGATGTGAAGGATTTTCATTTAAAAACCAAGTGGTTTTGACTTTTTCTGTTGAATGAACAACTGTGCCTTG
TGGAATTTTTGCAGAAGTGTTTATGCTTTGTTAGCATTTCAACTTGCATTATTATAAAGAGGTATTAATGCCTCA
GTTATGTGTTTGTCAATGTACTGGCTGAGGATTCTATCTCAGCTGTCTTTTCTAACTGTGTAGGTTGAGTTTTGA
ACACGTGCTTGTGGACATCAGGCCTCCTGCCAGCAGTTCTTGAAGCTTCTTTTTCATTCCTGCTACTCTACCTGT
ATTTCTCAGTTGCAGCACTGAGTGGTCAAAATACATTCTGGGCCACCTCAGGGAACCCATGCATCTGCCTGGCA
TTTAGGCAGCAGAGCCCCTGACCGTCCCCCACAGGGCTCTGCCTCACGTCCTCATCTCATTTGGCTGTGTAAAGA
AATGGGAAAAGGGAAAAGGAGAGAGCAATTGAGGCAGTTGACCATATTCAGTTTTATTTATTTATTTTTAATTTG
TTTTTTTCTCCAAGTCCACCAGTCTCTGAAATTAGAACAGTAGGCGGTATGAGATAATCAGGCCTAATCATGTTG
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FIGURE 3771B

TGATTCTCTTTTCTTAGTGGAGTGGAATGTTCTATCCCCACAAGAAGGATTATATCTTATAGACTTGTCTTGTTC
AGATTCTGTATTTACCCATTTTATTGAAACATATACTAAGTTCCATGTATTTTTGTTACAAATCTTCTGAAAAAA
AACAAAACAATGTGAAACATTAAAATTAAAAGGCATTAATAATA

FIGURE 3772

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG
GTCGCTGCCTGCCCACCCCCAAATGCCACACGCCGCCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCG
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTCCCCCCTGCGGGTGAAGAACTTCAGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG
GTGCCCGGCACCGCGCCCGAGCCCACTCCATTCAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGTCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCCGGT

4089/6881
FIGURE 3773

CGCATCCCCAGCCCGCCGCCATGGCCGCCTACAAACTGGTGCTGATCCGGCACGGCGAGAGCGCATGGAACCTGG
AGAACCGCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCGGCGGGCCACGAGGAGGCGAAGCGCGGCGGGCAGG
CGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTCACCTCAGTGCAGAAGATCTGGAGGCGCTCCTATGATG
TCCCACCACCTCCGATGGAGCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCGCAGGTATGCAGACCTCA
CAGAAGATCAGCTACCCTCCTGTGAGAGTCTGAAGGATACTATTGCCAGAGCTCTGCCCTTCTGGAATGAAGAAA
TAGTTCCCCAGATCAAGGAGGGGAAACGTGTACTGATTGCAGCCCATGGCAACAGCCTCCGGGGCATTGTCAAGC
ATCTGGAGGGTCTCTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCCCATTGTCTATGAATTGG
ACAAGAACTTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGATGAGGAGACGGTGCGCAAAGCCATGGAAGCTG
TGGCTGCCCAGGGCAAGGCCAAGAAGTGAAGGCCGGCGGGGAAGATACTGTCCCCAGGAGCACCCTCCCTGCCCA
TCTTGTCCCTCTGCCCCTCCCACCTGCACATGTCACACTGACCACATCTGTAGACATCTTGAGTTGTAGCTGCAG
ATGGGGACCAGTGGCTCCCATTTTCATTTTAGCCATTTTGTCGCCTGCACCCACTCCCTTCATACAATCTAGTCA
GAATAGCAGTTCTAGAGCACAGGTTCTCAGTCTAAGCTATGGAAAAGCTCCCCTTATCCAACAGAGTTTAAAACC
ATGCTAAGCCATGACCAGTGAGAAGAAGCAACAGAGCCTGTCTGTCCCCATGAGCGGAGTCTGTCCTCTGCTCTT
CTGCAGTCAGGTCACTGCCTACTGCCTGGGGGCTCTAGTCATTCCAGTGGAAGACGAATGTAACCTGCGTGGTGA
TGTGACAACTGTTT

FIGURE 3774

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GTGGGCGGACCGCGCGGCTGGAGGTGTGAGGATCCGAACCCAGGGGTGGAGGCGGCTCCTGCGATCGAAGGGGAC
TTGAGACTCACCGGCCGCACGCCATGAGGGCCCTGTGGGTGCTGGGCCTCTGCTGCGTCCTGCTGACCTTCGGGT
CGGTCAGAGCTGACGATGAAGTTGATGTGGATGGTACAGTAGAAGAGGATCTGGGTAAAAGTAGAGAAGGATCAA
GGACGGATGATGAAGTAGTACAGAGAGAGGAAGAAGCTATTCAGTTGGATGGATTAAATGCATCACAAATAAGAG
AACTTAGAGAGAAGTCGGAAAAGTTTGCCTTCCAAGCCGAAGTTAACAGAATGATGAAACTTATCATCAATTCAT
TGTATAAAAATAAAGAGATTTTCCTGAGAGAACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAGGCTAA
TATCACTGACTGATGAAAATGCTCTTTCTGGAAATGAGGAACTAACAGTCAAAATTAAGTGTGATAAGGAGAAGA
ACCTGCTGCATGTCACAGACACCGGTGTAGGAATGACCAGAGAAGAGTTGGTTAAAAACCTTGGTACCATAGCCA
AATCTGGGACAAGCGAGTTTTTAAACAAATGACTGAAGCACAGGAAGATGGCCAGTCAACTTCTGAATTGATTG
GCCAGTTTGGTGTCGGTTTCTATTCCGCCTTCCTTGTAGCAGATAAGGTTATTGTCACTTCAAAACACAACAACG
ATACCCAGCACATCTGGGAGTCTGACTCCAATGAATTTTCTGTAATTGCTGACCCAAGAGGAAACACTCTAGGAC
GGGGAACGACAATTACCCTTGTCTTAAAAGAAGAAGCATCTGATTACCTTGAATTGGATACAATTAAAAATCTCG
TCAAAAAATATTCACAGTTCATAAACTTTCCTATTTATGTATGGAGCAGCAAGACTGAAACTGTTGAGGAGCCCA
TGGAGGAAGAAGAAGCAGCCAAAGAAGAGAAAGAAGAATCTGATGATGAAGCTGCAGTAGAGGAAGAAGAAGAAG
AAAAGAAACCAAAGACTAAAAAAGTTGAAAAAACTGTCTGGGACTGGGAACTTATGAATGATATCAAACCAATAT
GGCAGAGACCATCAAAAGAAGTAGAAGAAGATGAATACAAAGCTTTCTACAAATCATTTTCAAAGGAAAGTGATG
ACCCCATGGCTTATATTCACTTTACTGCTGAAGGGGAAGTTACCTTCAAATCAATTTTATTTGTACCCACATCTG
CTCCACGTGGTCTGTTTGACGAATATGGATCTAAAAAGAGCGATTACATTAAGCTCTATGTGCGCCGTGTATTCA
TCACAGACGACTTCCATGATATGATGCCTAAATACCTCAATTTTGTCAAGGGTGTGGTGGACTCAGATGATCTCC
CCTTGAATGTTTCCCGCGAGACTCTTCAGCAACATAAACTGCTTAAGGTGATTAGGAAGAAGCTTGTTCGTAAAA
CGCTGGACATGATCAAGAAGATTGCTGATGATAAATACAATGATACTTTTTGGAAAGAATTTGGTACCAACATCA
AGCTTGGTGTGATTGAAGACCACTCGAATCGAACACGTCTTGCTAAACTTCTTAGGTTCCAGTCTTCTCATCATC
CAACTGACATTACTAGCCTAGACCAGTATGTGGAAAGAATGAAGGAAAAACAAGACAAAATCTACTTCATGGCTG
GGTCCAGCAGAAAAGAGGCTGAATCTTCTCCATTTGTTGAGCGACTTCTGAAAAAGGGCTATGAAGTTATTTACC
TCACAGAACCTGTGGATGAATACTGTATTCAGGCCCTTCCCGAATTTGATGGGAAGAGGTTCCAGAATGTTGCCA
AGGAAGGAGTGAAGTTCGATGAAAGTGAGAAAACTAAGGAGAGTCGTGAAGCAGTTGAGAAAGAATTTGAGCCTC
TGCTGAATTGGATGAAAGATAAAGCCCTTAAGGACAAGATTGAAAAGGCTGTGGTGTCTCAGCGCCTGACAGAAT
CTCCGTGTGCTTTGGTGGCCAGCCAGTACGGATGGTCTGGCAACATGGAGAGAATCATGAAAGCACAAGCGTACC
AAACGGGCAAGGACATCTCTACAAATTACTATGCGAGTCAGAAGAAAACATTTGAAATTAATCCCAGACACCCGC
TGATCAGAGACATGCTTCGACGAATTAAGGAAGATGAAGATGATAAAACAGTTTTGGATCTTGCTGTGGTTTTGT
TTGAAACAGCAACGCTTCGGTCAGGGTATCTTTTACCAGACACTAAAGCATATGGAGATAGAATAGAAAGAATGC
TTCGCCTCAGTTTGAACATTGACCCTGATGCAAAGGTGGAAGAAGAGCCTGAAGAAGAACCTGAAGAGACAGCAG
AAGACACAACAGAAGACACAGAGCAAGACGAAGATGAAGAAATGGATGTGGGAACAGATGAAGAAGAAGAAACAG
CAAAGGAATCTACAGCTGAAAAAGATGAATTGTAAATTATACTCTCACCATTTGGATCCTGTGTGGAGAGGGAAT
GTGAAATTTACATCATTTCTTTTTGGGAGAGACTTGTTTTGGATGCCCCCTAATCCCCTTCTCCCCTGCACTGTA
AAATGTGGGATTATGGGTCACAGGAAAAAGTGGGTTTTTTAGTTGAATTTTTTTTAACATTCCTCATGAATGTAA
ATTTGTACTATTTAACTATTCTTGATGTAAAATCTTGTCATGTGTATAAAAATAAAAAAGATCCCAAAT
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FIGURE 3775

ATGAGCTTCACCACTCGCTCCACCTTCTCCACCAACTACCGGTCCCTGGGCTCTGTCCAGACGCCCAGCTATGGC
GCCTGGCCAGTCAGCAGTGTGGCCAGCGTCTATGCAGGCAGCAGGGGCTCTCATTCCCGGATCTCTGTGTGCTGC
TTCACCAGCTTCCGGGTTGCATGGGGAATAGGAGGCATCCAGAACGAGAAGGAGACCATGCAAAGCCTGAACGAC
TGCCTGGCCTCCTACCTGGACAGAGTGAGGAGCCTGGTGACCAAGAACCAGAAGCTGGAGAGCAAAATCCGGGAG
CACGTGGAGAAGAAGGGACCCCATGTCAGAGACTGGAGCCATTACTTCAAGATCATCGATGACCTGAGGGCTCAG
ATCTTTGCAAACACTGTGGACAATGCCTGCATCGTTCTGCAGATCGACAATGTCTGTCTTGCTGCTGATGACTTT
AGGGTCAAGTATGAGACAGAGCTGGCCATGGCCCATGACATCCATGGGCTCCGCAAGGTCATTGTTGACACCAAT
GTCACTCGGCTGCAGCTGGAGACAGAGATTGAGGCTCTCAAGGAGGAGCTGCTCTTCATAAAGAAGAACCACAAA
GAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACCATGGAGGTAGATGCCCTTAAATCTCAG
TGCCTCGCCAAGATCATGGCAGACATCTGGGCCCAATATGACGAGCTGGCTCGGAAGAACCAAGAGGAGCTGGAC
AAATACTGGTCTCAGAAGAATGAGGAAATCGCCAAAGTGGTCACCACGCAGTCCGCCGAGGTTGGAGCTGCTGAG
ATGACGCTCACAGAGCTGAGATGTACAGTCCAGTCCTTGGAGGTTGACCTGGACTCCATGAGAAGTCTGAAGGCC
AGCTTGGAGGACCGCCTGAGGGAGGTGGAGGCCCGCCACACCCTGCAGATGGAGCAGCTCAATGGGATCCTGTTG
CACCTGGAGTCAGAGCTGGCACAGACCCTGGCAGAGGGACAGTGCCAGGCCCAGGAGTACGAGGCCCTGCTGAAC
ATCAAGGTCAAGTTGGAGGCTGAGATCGCCACCTACCGCCGCCTGCTGGAAGATGGCGAGGAGTTCAATCTTGGT
GATGCCCTGGACAGCAGCAACTCCATGCAAACCATCCAAAAGACCACCACTGCCGGATAG

4092/6881
FIGURE 3776

MGSGGLAAGMAGGLAGIGGIQNEKETMQSLNDCLASYLDRVRSLVTKNQKLESKIREHVEKKGPHVRDWSHYFKI
IDDLRAQIFANTVDNACIVLQIDNVCLAADDFRVKYETELAMAHDIHGLRKVIVDTNVTRLQLETEIEALKEELL
FIKKNHKEEVKGLQAQIASSGLTMEVDALKSQCLAKIMADIWAQYDELARKNQEELDKYWSQKNEEIAKVVTTQS
AEVGAAEMTLTELRCTVQSLEVDLDSMRSLKASLEDRLREVEARHTLQMEQLNGILLHLESELAQTLAEGQCQAQ
EYEALLNIKVKLEAEIATYRRLLEDGEEFNLGDALDSSNSMQTIQKTTTAG

4093/6881
FIGURE 3777

CAGTGCCAGGCTGGAGGCGGCAGCGGTTGGAGGCTTCGCCCGGCTTTGCAGCGGGGACTTCGGCGGCGGCGCCTC
AGGCACCTCGGCCCGGACACGATGAGGCGAGTGGTACGACAGAGCAAGTTTCGGCATGTATTTGGGCAAGCGGTG
AAAAATGACCAGTGCTATGATGACATCCGGGTTTCTCGTGTGACCTGGGATAGTTCCTTTTGTGCTGTCAATCCC
AGATTTGTTGCCATAATCATAGAGGCAAGTGGGGGAGGAGCGTTCCTTGTCCTCCCTCTGCACAAGACTGGTCGA
ATTGACAAATCTTACCCTACAGTATGTGGCCACACAGGACCAGTGCTGGACATAGACTGGTGCCCACATAACGAT
CAGGTCATTGCCAGCGGTTCAGAGGACTGCACGGTCATGGTATGGCAGATCCCAGAAAATGGACTCACCCTTTCC
CTGACTGAACCTGTGGTGATTTTGGAAGGCCACTCAAAGAGAGTCGGCATCGTGGCTTGGCATCCAACGGCCCGC
AATGTGCTTCTTAGTGCAGGCTGTGATAATGCCATTATCATCTGGAATGTGGGAACAGGGGAAGCCCTTATAAAC
TTGGACGATATGCATTCAGACATGATTTACAATGTGAGCTGGAACCGGAATGGCAGTCTGATCTGCACAGCTTCC
AAAGACAAGAAAGTGAGAGTCATTGATCCCAGGAAACAAGAGATTGTTGCTGAGAAGGAGAAAGCACATGAAGGA
GCAAGACCCATGAGAGCCATCTTCCTGGCCGATGGCAATGTCTTCACCACTGGGTTCAGCCGCATGAGCGAGCGG
CAGCTGGCTCTCTGGAATCCGAAAAATATGCAGGAACCAATTGCTCTTCATGAGATGGACACTAGCAATGGGGTG
TTGCTGCCTTTCTATGACCCTGACACCAGCATCATTTACTTATGTGGAAAGGGTGACAGCAGTATTCGCTATTTT
GAGATCACGGATGAATCCCCGTACGTCCACTACCTCAACACATTCAGCAGCAAGGAGCCTCAGAGAGGGATGGGT
TACATGCCCAAGAGGGGACTTGATGTTAACAAATGTGAGATTGCCAGATTCTTCAAACTTCATGAGAGAAAGTGT
GAACCTATTATTATGACTGTTCCCAGGAAGTCTGACCTTTTCCAAGATGACCTGTATCCTGACACAGCGGGGCCA
GAGGCCGCGCTGGAGGCAGAAGAGTGGTTCGAAGGCAAGAATGCAGACCCAATCCTCATCTCCTTGAAGCACGGG
TACATTCCAGGCAAAAACAGGGATCTCAAGGTGGTCAAGAAGAACATTCTGGATAGCAAGCCCACTGCAAACAAG
AAGTGCGACCTGATCAGCATCCCCAAGAAAACCACAGACACGGCCAGTGTGCAAAATGAAGCCAAGTTGGATGAG
ATTTTAAAAGAGATCAAATCTATAAAAGACACAATCTGCAATCAAGATGAGCGTATTTCCAAGTTAGAACAGCAG
ATGGCAAAGATAGCAGCCTGAAGGTCCCACCCCCACCCCTACAGAAAAAATGGGAGCAAGAACTTGTGCTTGGGA
GCTGGTTATTGGTGTGGTCCTAGGGAGGGCGGAAAGGGAGGCACTGCCATTGGAGACATTCCATTTCAGATTTG
TCAACCAGCGATAGGCCACATTCCAGTAAGAACTCAATTTGTCTCCCAAATTTGCAGAAACAAAACGTGATTTAA
AAGCTGAGCTTTTTATCAGAAAGCTTTTTTGATGTTTTAAGTGTTATGTGACTTGTTGAACTTTTTAAAAAGTGC
TACTTTTAAAATCCCAGATACTCTGAATTTTAGAAAACAAACTAATTCTGATTGTGTCGTGCCCAAGTACCCTTT
TTTTTTTAATGAATAGGGACCAATGCCACATTGCTTTTTATATTTCTTTCTTTTTTAATGTTGCCAAAACCAAAA
GTAGCTTTGTTTTCCTTTGTATTTTGCTACTTTGCAGTATTTGTGTGTGTGGTTTTTTTTCCTTAATTTGAAAGG
GACAGCACTGTGTATGTTTATAAACTAAATGAAGATAAGATATTATTTTGTATAAACATTCATCTGAGAACAATC
AAAGCAGTAGCCACATGGTGCTGGCTCCTTTGCAGCACAAACCTGGTCATTTTGATGACTGTACAACAGGAAGAC
TTGAAAAATCACGTGGATTCATATTACCACCGCTCTCATTTCATGGAGTCTTCTGATCAAAAAAGCTCACGTCGT
ATTTCTTCTTTTCCTTTCTCTTTTCTAGAAATTGGGTGTTTGTACCAGAATGGAATTTTGCTTCTCGGTTATCCT
GTGCTTCAGATGATTATAATCTAACCC

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FIGURE 3778

MRRVVRQSKFRHVFGQAVKNDQCYDDIRVSRVTWDSSFCAVNPRFVAIIIEASGGGAFLVLPLHKTGRIDKSYPT
VCGHTGPVLDIDWCPHNDQVIASGSEDCTVMVWQIPENGLTLSLTEPVVILEGHSKRVGIVAWHPTARNVLLSAG
CDNAIIIWNVGTGEALINLDDMHSDMIYNVSWNRNGSLICTASKDKKVRVIDPRKQEIVAEKEKAHEGARPMRAI
FLADGNVFTTGFSRMSERQLALWNPKNMQEPIALHEMDTSNGVLLPFYDPDTSIIYLCGKGDSSIRYFEITDESP
YVHYLNTFSSKEPQRGMGYMPKRGLDVNKCEIARFFKLHERKCEPIIMTVPRKSDLFQDDLYPDTAGPEAALEAE
EWFEGKNADPILISLKHGYIPGKNRDLKVVKKNILDSKPTANKKCDLISIPKKTTDTASVQNEAKLDEILKEIKS
IKDTICNQDERISKLEQQMAKIAA.

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FIGURE 3779

ATGGCTGTAAAGCATCTTCAGAAGCATCGCCTCTGTTCCTTCTCCTGCTGGCCAGCTACAAGTGAGCGGCACAGC
CTGCTCCATGCCACAGGCCTGCCTGCGCCCCTGGGAACCATAGTAGTGCAGTCCACAAGGAGCATCCCGGCTGGG
CCCCACAACAGGCCCCCCGAACTAGAGAACGTGGAACATGAGTCTCTTAGGATGAACGAGGAGCCGCTGGAGCGG
ACTCTCAGAGCGCTACCTGGCCACCAGTCTCTGGGTGGGGGTCCTGGGGGCACCATGGTTTCGGCGGCAGCCCCC
AGCCTCCTCATCCTTCTGTTGCTGCTCCTGGGGTCTGTGCCTGCTACCGACGCCCGCTCTGTGCCCCTGAAGGCC
ACGTTCCTGGAGGATGTGGCGGGTAGTGGGGAGGCCGAGGGCTCGTCGGCCTCCTCCCCGAGCCTCCCGCCACCC
TGGACCCCGGCCCTCAGCCCCACATCGATGGGGCCCCAGCCCATAACCCTGGGGGGGCCCATCACCCCCCACCAAC
TTCCTGGATGGGATAGTGGACTTCTTCCGCCAGTACGTGATGCTGATTGCTGTGGTGGGCTCCCTGGCCTTTCTG
CTGATGTTCATCGTCTGTGCCGCGGTCATCACCCGGCAGAAGCAGAAGGCCTCGGCCTATTACCCATCGTCCTTC
CCCAAGAAGAAGTACGTGGACCAGAGTGACCGGGCCGGGGGCCCCCGGGCCTTCAGTGAGGTCCCCGACAGAGCC
CCCGACAGCAGGCCCGAGGAAGCCCTGGATTCCTCCCGGCAGCTCCAGGCCGACATCTTGGCCGCCACCCAGAAC
CTCAAGTCCCCCACCAGGGCTGCACTGGGCGGTGGGGACGGAGCCAGGATGGTGGAGGGCAGGGGCGCAGAGGAA
GAGGAGAAGGGCAGCCAGGAGGGGGACCAGGAAGTCCAGGGACATGGGGTCCCAGTGGAGACACCAGAGGCGCAG
GAGGAGCCGTGCTCAGGGGTCCTTGAGGGGGCTGTGGTGGCCGGTGAGGGCCAAGGGGAGCTGGAAGGGTCTCTC
TTGTTAGCCCAGGAAGCCCAGGGACCAGTGGGTCCCCCCGAAAGCCCCTGTGCTTGCAGCAGTGTCCACCCCAGT
GTCTAA

4096/6881
FIGURE 3780

MVSAAAPSLLILLLLLLLGSVPATDARSVPLKATFLEDVAGSGEAEGSSASSPSLPPPWTPALSPTSMGPQPITLG
GPSPPTNFLDGIVDFFRQYVMLIAVVGSLAFLLMFIVCAAVITRQKQKASAYYPSSFPKKKYVDQSDRAGGPRAF
SEVPDRAPDSRPEEALDSSRQLQADILAATQNLKSPTRAALGGGDGARMVEGRGAEEEEKGSQEGDQEVQGHGVP
VETPEAQEEPCSGVLEGAVVAGEGQGELEGSLLLAQEAQGPVGPPESPCACSSVHPSV

4097/6881
FIGURE 3781

GGGACCTTAATTCTCTTTCCCATCTTGCAAG<u>ATG</u>GCGGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAA
ACCCGAAGCCAAGAAGGTTGATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAAGCTAAAAAGCCCAAGAAGGG
GAAGCCCCATTGCAGCCGCAACCCTGTCCTTGTCAGAGGAATTGGCAGGTATTCCCGATCTGCCATGTATTCCAG
AAAGGCCATGTACAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTCGC
AACTGTTACAAAACCAGTTGGTGGTGACAAGAACGGCGGTACCCGGGTGGTTAAACTTCGCAAAATGCCTAGATA
TTATCCTACTGAAGATGTGCCTCGAAAGCTGTTGAGCCACGGCAAAAAACCCTTCAGTCAGCACGTGAGAAAACT
GCGAGCCAGCATTACCCCCGGGACCATTCTGATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCCT
GAAGCAGCTGGCTAGTGGCTTATTACTTGTGACTGGACCTCTGGTCCTCAATCGAGTTCCTCTACGAAGAACACA
CCAGAAATTTGTCATTGCCACTTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGC
TTACTTCAAGAAGAAGAAGCTGCGGAAGCCCAGACACCAGGAAGGTGAGATCTTCGACACAGAAAAAGAGAAATA
TGAGATTACGGAGCAGCGCAAGATTGATCAGAAAGCTGTGGACTCACAAATTTTACCAAAAATCAAAGCTATTCC
TCAGCTCCAGGGCTACCTGCGATCTGTGTTTGCTCTGACGAATGGAATTTATCCTCACAAATTGGTGTTC<u>TAA</u>AT
GTCTTAAGAACCTAATTAAATAGCTGACTACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3782

MAGEKVEKPDTKEKKPEAKKVDAGGKVKKGNLKAKKPKKGKPHCSRNPVLVRGIGRYSRSAMYSRKAMYKRKYSA
AKSKVEKKKKEKVLATVTKPVGGDKNGGTRVVKLRKMPRYYPTEDVPRKLLSHGKKPFSQHVRKLRASITPGTIL
IILTGRHRGKRVVFLKQLASGLLLVTGPLVLNRVPLRRTHQKFVIATSTKIDISNVKIPKHLTDAYFKKKKLRKP
RHQEGEIFDTEKEKYEITEQRKIDQKAVDSQILPKIKAIPQLQGYLRSVFALTNGIYPHKLVF

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FIGURE 3783

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AGTTCACCCAGGCCCTGAACTGCCAAACAGTTACTCAACTGCTTAAGCTGGCCCACAAATACAGACAAGAGACCA
CCTGCCCTTCGAGCAGGAGTTAACACCATCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTGCA
CACGATGTGGATTCCATCGAGCTGGTTGTCTTCTTGCCTGCCCTGTGTTGTAAAATGGGAGTCCCTTACTGCATT
ATCAAGGGGAAGGCAAGACTGGGCCGTCTAGTCCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAAC
TTGGAAGACAAAGGCGCTTTGGCTAAGCTGGTGGAAGGTATCAGGACCAATGACAATGACAGATACGATGAGATC
TGCTGTCACTGGGGAGGCAATATCTTGGGTCCCAAGTCTGTGGCTTGCATTGCCAAGCTCGAAAAGGCAAAGGCT
AAAGAACTTGCCACTAAACTGGGTTAAATGTATACTGTTGAGTTTTCTGTACATAAAAATAATGAAAATAATACA
AATTTTCCTT
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FIGURE 3784

MGVPYCIIKGKARLGRLVHRKTCTTVAFTQVNLEDKGALAKLVEGIRTNDNDRYDEICCHWGGNILGPKSVACIA
KLEKAKAKELATKLG

4101/6881
FIGURE 3785

CGGCCGGCGATATGGCTGCCGCTGTGCCCCGCGCCGCATTTCTCTCCCCGCTGCTTCCCCTTCTCCTGGGCTTCC
TGCTCCTCTCCGCTCCGCATGGCGGCAGCGGCCTGCACACCAAGGGCGCCCTTCCCCTGGATACGGTCACTTTCT
ACAAGGTCATTCCCAAAAGCAAGTTCGTCTTGGTGAAGTTCGACACCCAGTACCCCTACGGTGAGAAGCAGGATG
AGTTCAAGCGTCTTGCTGAAAACTCGGCTTCCAGCGATGATCTCTTGGTGGCAGAGGTGGGGATCTCAGATTATG
GTGACAAGCTGAACATGGAGCTGAGTGAGAAATACAAGCTGGACAAAGAGAGCTACCCAGTCTTCTACCTCTTCC
GGGATGGGGACTTTGAGAACCCAGTCCCATACACTGGGGCAGTTAAGGTTGGAGCCATCCAGCGCTGGCTGAAGG
GGCAAGGGGTCTACCTAGGTATGCCTGGTTGCCTGCCTGTATACGACGCCCTGGCCGGGGAGTTCATCAGGGCCT
CTGGTGTGGAGGCCCGCCAGGCCCTCTTGAAGCAGGGGCAAGATAACCTCTCAAGTGTGAAGGAGACTCAGAAGA
AGTGGGCCGAGCAATACCTGAAGATCATGGGGAAGATCTTAGACCAAGGGGAGGACTTCCCAGCATCAGAGATGA
CACGGATCGCCAGGCTGATTGAGAAGAACAAGATGAGTGACGGCAAGAAGGAGGAGCTCCAGAAGAGCTTAAACA
TCCTGACTGCCTTCCAGAAGAAGGGGGCCGAGAAAGAGGAGCTGTAAAAAGGCTGTCTGTGATTTTCCAGGGTTT
GGTGGGGGTAGGGAGGGGAGAGTTAACCTGCTGGCTGTGAGTCCCTTGTGGAATATAAGGGGGTAGTGGGAACAG
TGGTACTAACCCACGATTCTGAGCCCTGAGTATGCCTGGACATTGATGCTAACATGACATGCT

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FIGURE 3786

MAAAVPRAAFLSPLLPLLLGFLLLSAPHGGSGLHTKGALPLDTVTFYKVIPKSKFVLVKFDTQYPYGEKQDEFKR
LAENSASSDDLLVAEVGISDYGDKLNMELSEKYKLDKESYPVFYLFRDGDFENPVPYTGAVKVGAIQRWLKGQGV
YLGMPGCLPVYDALAGEFIRASGVEARQALLKQGQDNLSSVKETQKKWAEQYLKIMGKILDQGEDFPASEMTRIA
RLIEKNKMSDGKKEELQKSLNILTAFQKKGAEKEEL

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FIGURE 3787A

ATGGTCTTGCTTCTTTGTCTATCTTGTCTGATTTTCTCCTGTCTGACCTTTTCCTGGTTAAAAATCTGGGGGAAA
ATGACGGACTCCAAGCCGATCACCAAGAGTAAATCAGAAGCAAACCTCATCCCGAGCCAGGAGCCCTTTCCAGCC
TCTGATAACTCAGGGGAGACACCGCAGAGAAATGGGGAGGGCCACACTCTGCCCAAGACACCCAGCCAGGCCGAG
CCAGCCTCCCACAAAGGCCCCAAAGATGCCGGTCGGCGGAGAAACTCCCTACCACCCTCCCACCAGAAGCCCCCA
AGAAACCCCCTTTCTTCCAGTGACGCAGCACCCTCCCCAGAGCTTCAAGCCAACGGGACTGGGACACAAGGTCTG
GAGGCCACAGATACCAATGGCCTGTCCTCCTCAGCCAGGCCCCAGGGCCAGCAAGCTGGCTCCCCCTCCAAAGAA
GACAAGAAGCAGGCAAACATCAAGAGGCAGCTGATGACCAACTTCATCCTGGGCTCTTTTGATGACTACTCCTCC
GACGAGGACTCTGTTGCTGGCTCATCTCGTGAGTCTACCCGGAAGGGCAGCCGGGCCAGCTTGGGGGGCCCTGTCC
CTGGAGGCTTATCTGACCACAGGTGAAGCTGAGACCCGCGTCCCCACTATGAGGCCGAGCATGTCGGGACTCCAC
CTGGTGAAGAGGGGACGGGAACACAAGAAGCTGGACCTGCACAGAGACTTTACCGTGGCTTCTCCCGCTGAGTTT
GTCACACGCTTTGGGGGGGATCGGGTCATCGAGAAGGTGCTTATTGCCAACAACGGGATTGCCGCCGTGAAGTGC
ATGCGCTCCATCCGCAGGTGGGCCTATGAGATGTTCCGCAACGAGCGGGCCATCCGGTTTGTTGTGATGGTGACC
CCCGAGGACCTTAAGGCCAACGCAGAGTACATCAAGATGGCGGATCATTACGTCCCCGTCCCAGGAGGGCCCAAT
AACAACAACTATGCCAACGTGGAGCTGATTGTGGACATTGCCAAGAGAATCCCCGTGCAGGCGGTGTGGGCTGGC
TGGGGCCATGCTTCAGAAAACCCTAAACTTCCGGAGCTGCTGTGCAAGAATGGAGTTGCTTTCTTAGXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXGAGATAAGATCGCCTCCACCGTTGTCGCCCAGACGCTACAGGTCCCAACC
CTGCCCTGGAGTGGAAGCGGCCTGACAGTGGAGTGGACAGAAGATGATCTGCAGCAGGGAAAAAGAATCAGTGTC
CCAGAAGATGTTTATGACAAGGGTTGCGTGAAAGACGTAGATGAGGGCTTGGAGGCAGCAGAAAGAATTGGTTTT
CCATTGATGATCAAAGCTTCTGAAGGTGGCGGAGGGAAGGGAATCCGGAAGGCTGAGAGTGCGGAGGACTTCCCG
ATCCTTTTCAGACAAGTACAGAGTGAGATCCCAGGCTCGCCCATCTTTCTCATGAAGCTGGCCCAGCACGCCCGT
CACCTGGAAGTTCAGATCCTCGCTGACCAGTATGGGAATGCTGTGTCTCTGTTTGGTCGCGACTGCTCCATCCAG
CGGCGGCATCAGAAGATCGTTGAGGAAGCACCGGCCACCATCGCCCCGCTGGCCATATTCGAGTTCATGGAGCAG
TGTGCCATCCGCCTGGCCAAGACCGTGGGCTATGTGAGTGCAGGGACAGTGGAATACCTCTATAGTCAGGATGGC
AGCTTCCACTTCTTGGAGCTGAATCCTCGCTTGCAGGTGGAACATCCCTGCACAGAAATGATTGCTGATGTTAAT
CTGCCGGCCGCCCAGCTACAGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXGAACTGAATTTC
CGGAGCAGCAAGAACGTGTGGGGTTACTTCAGCGTGGCCGCTACTGGAGGCCTGCACGAGTTTGCGGATTCCCAA
TTTGGGCACTGCTTCTCCTGGGGAGAGAACCGGGAAGAGGCCATTTCGAACATGGTGGTGGCTTTGAAGGAACTG
TCCATCCGAGGCGACTTTAGGACTACCGTGGAATACCTCATTAACCTCCTGGAGACCGAGAGCTTCCAGAACAAC
GACATCGACACCGGGTGGTTGGACTACCTCATTGCTGAGAAAGTGCAGGAGAAACCGGATATCATGCTTGGGGTG
GTATGCGGGGCCTTGAACGTGGCCGATGCGATGTTCAGAACGTGCATGACAGATTTCTTACACTCCCTGGAAAGG
GGCCAGGTCCTCCCAGCGGATTCACTACTGAACCTCGTAGATGTGGAATTAATTTACGGAGGTGTTAAGTACATT
CTCAAGGTGGCCCGGCAGTCTCTGACCATGTTCGTTCTCATCATGAATGGCTGCCACATCGAGATTGATGCCCAC
CGGCTGAATGATGGGGGGCTCCTGCTCTCCTACAATGGGAACAGCTACACCACCTACATGAAGGAAGAGGTTGAC
AGXXXXXXXXXXXXXCGGCAATAAGACGTGTGTGTTTGAGAAGGAGAACGATCCTACAGTCCTGAGATCCCCCTCG
GCTGGGAAGCTGACACAGTACACAGTGGAGGATGGGGGCCACGTTGAGGCTGGGAGCAGCTACGCTGAGATGGAG
GTGATGAAGATGATCATGACCCTGAACGTTCAGGAAAGAGGCCGGGTGAAGTACATCAAGCGTCCAGGTGCCGTG
CTGGAAGCAGGCTGCGTGGTGGCCAGGCTGGAGCTCGATGACCCTTCTAAAGTCCACCCGGCTGAACCGTTCACA
GGAGAACTCCCTGCCCAGCAGACACTGCCCATCCTCGGAGAGAAACTGCACCAGGTCTTCCACAGCGTCCTGGAA
AACCTCACCAACGTCATGAGTGGCTTTTGTCTGCCAGAGCCCGTTTTTAGCATAAAGCTGAAGGAGTGGGTGCAG
AAGCTCATGATGACCCTCCGGCACCCGTCACTGCCGCTGCTGGAGCTGCAGGAGATCATGACCAGCGTGGCAGGC
CGCATCCCCGCCCCTGTGGAGAAGTCTGTCCGCAGGGTGATGGCCCAGTATGCCAGCAACATCACCTCGGTGCTG
TGCCAGTTCCCCAGCCAGCAGATAGCCACCATCCTGGACTGCCATGCAGCCACCCTGCAGCGGAAGGCTGATCGA
GAGGTCTTCTTCATCAACACCCAGAGCATCGTGCAGTTGGTCCAGAGGTACCGCAGCGGGATCCGCGGCTATATG
AAAACAGTGGTGTTGGATCTCCTGAGAAGATACTTGCGTGTTGAGCACCATTTTCAGCAAGGCAAGAGATGCTGA
TGCCAACACCAGTGGGATGGTGGGGGGCGTGAGGAGCCTGAGCTTTACCTCTGTGTGGTGTTTTGTCTCCCCCAG
CCCACTACGACAAGTGTGTGATAAACCTCAGGGAGCAGTTCAAGCCAGACATGTCCCAGGTGCTGGACTGCATCT

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FIGURE 3787B

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TCTCCCACGCACAGGTGGCCAAGAAGAACCAGCTGGTGATCATGTTGATCGATGAGCTGTGTGGCCCAGACCCTT
CCCTGTCGGACGAGCTGATCTCCATCCTCAACGAGCTCACTCAGCTGAGCAAAAGCGAGCACTGCAAAGTGGCCC
TCAGAGCCCGGCAGATCCTGATTGCCTCCCACCTCCCCTCCTACGAGCTGCGGCATAACCAGGTGGAGTCCATTT
TCCTGTCTGCCATTGACATGTACGGCCACCAGTTCTGCCCCGAGAACCTCAAGGTGAAGAAATTAATACTTTCGG
AAACAACCATCTTCGACGTCCTGCCTACTTTCTTCTATCACGCAAACAAAGTCGTGTGCATGGCGTCCTTGGAGG
TTTACGTGCGGAGGGGCTACATCGCCTATGAGTTAAACAGCCTGCAGCACCGGCAGCTCCCGGACGGCACCTGCG
TGGTAGAATTCCAGTTCATGCTGCCGTCCTCCCACCCAAACCGGATGACCGTGCCCATCAGCATCACCAACCCTG
ACCTGCTGAGGCACAGCACAGAGCTCTTCATGGACAGCGGCTTCTCCCCACTGTGCCAGCGCATGGGAGCCATGG
TAGCCTTCAGGAGATTCGAGGACTTCACCAGAAATTTTGATGAAGTCATCTCTTGCTTCGCCAACGTGCCCAAAG
ACACCCCCCTCTTCAGCGAGGCCCGCACCTCCCTATACTCCGAGGATGACTGCAAGAGCCTCAGAGAAGAGCCCA
TCCACATTCTGAATGTGTCCATCCAGTGTGCAGACCACCTGGAGGATGAGGCACTGGTGCCGATTTTACGGACAT
TCGTACAGTCCAAGAAAAATATCCTTGTGGATTATGGACTCCACGAATCACATTCTTGATTGCCCAAGAGAAAG
AATTTCCCAAGTTTTTCACATTCAGAGCAAGAGATGAGTTTGCAGAAGATCGCATTTACCGTCACTTGGAACCTG
CCCTGGCCTTCCAGCTGGAACTTAACCGGATGCGTAACTTCGATCTGACCGCCGTGCCCTGTGCCAACCACAAGA
TGCACCTTTACCTGGGTGCTGCCAAGGTGAAGGAAGGTGTGGAAGTGACGGACCATAGGTTCTTCATCCGCGCCA
TCATCAGGCACTCTGACCTGATCACAAAGGAAGCCTCCTTCGAATACCTGCAGAACGAGGGTGAGCGGCTGCTCC
TGGAGGCCATGGACGAGCTGGAGGTGGCGTTCAATAACACCAGCGTGCGCACCGACTGCAACCACATCTTCCTCA
ACTTCGTGCCCACTGTCATCATGGACCCCTTCAAGATCGAGGAGTCCGTGCGCTACATGGTTATGCGCTACGGCA
GCCGGCTGTGGAAACTCCGTGTGCTACAGGCTGAGGTCAAGATCAACATCCGCCAGACCACCACCGGCAGTGCCG
TTCCCATCCGCCTGTTCATCACCAATGAGTCGGGCTACTACCTGGACATCAGCCTCTACAAAGAAGTGACTGACT
CCAGATCTGGAAATATCATGTTTCACTCCTTCGGCAACAAGCAAGGGCCCCAGCACGGGATGCTGATCAATACTC
CCTACGTCACCAAGGATCTGCTCCAGGCCAAGCGATTCCAGGCCCAGACCCTGGGAACCACCTACATCTATGACT
TCCCGGAAATGTTCAGGCAGGCTCTCTTTAAACTGTGGGGCTCCCCAGACAAGTATCCCAAAGACATCCTGACAT
ACACTGAATTAGTGTTGGACTCTCAGGGCCAGCTGGTGGAGATGAACCGACTTCCTGGTGGAAATGAGGTGGGCA
TGGTGGCCTTCAAAATGAGGTTTAAGACCCAGGAGTACCCGGAAGGACGGGATGTGATCGTCATCGGCAATGACA
TCACCTTTCGCATTGGATCCTTTGGCCCTGGAGAGGACCTTCTGTACCTGCGGGCATCCGAGATGGCCCGGGCAG
AGGGCATTCCCAAAATTTACGTGGCAGCCAACAGTGGCGCCCGTATTGGCATGGCAGAGGAGATCAAACACATGT
TCCACGTGGCTTGGGTGGACCCAGAAGACCCCCACAAAGGATTTAAATACCTGTACCTGACTCCCCAAGACTACA
CCAGAATCAGCTCCCTGAACTCCGTCCACTGTAAACACATCGAGGAAGGAGGAGAGTCCAGATACATGATCACGG
ATATCATCGGGAAGGATGATGGCTTGGGCGTGGAGAATCTGAGGGGCTCAGGCATGATTGCTGGGGAGTCCTCTC
TGGCTTACGAAGAGATCGTCACCATTAGCTTGGTGACCTGCCGAGCCATTGGGATTGGGGCCTACTTGGTGAGGC
TGGGCCAGCGAGTGATCCAGGTGGAGAATTCCCACATCATCCTCACAGGAGCAAGTGCTCTCAACAAGGTCCTGG
GAAGAGAGGTCTACACATCCAACAACCAGCTGGGTGGCGTTCAGATCATGCATTACAATGGTGTCTCCCACATCA
CCGTGCCAGATGACTTTGAGGGGGTTTATACCATCCTGGAGTGGCTGTCCTATATGCCAAAGGATAATCACAGCC
CTGTCCCTATCATCACACCCACTGACCCCATTGACAGAGAAATTGAATTCCTCCCATCCAGAGCTCCCTACGACC
CCCGGTGGATGCTTGCAGGAAGGCCTCACCCAACTCTGAAGGGAACGTGGCAGAGCGGATTCTTTGACCACGGCA
GTTTCAAGGAAATCATGGCACCCTGGGCGCAGACCGTGGTGACAGGACGAGCAAGGCTTGGGGGGATTCCCGTGG
GAGTGATTGCTGTGGAGACACGGACTGTGGAGGTGGCAGTCCCTGCAGACCCTGCCAACCTGGATTCTGAGGCCA
AGATAATTCAGCAGGCAGGACAGGTGTGGTTCCCAGACTCAGCCTACAAAACCGCCCAGGCCGTCAAGGACTTCA
ACCGGGAGAAGTTGCCCCTGATGATCTTTGCCAACTGGAGGGGGTTCTCCGGTGGCATGAAAGACATGTATGACC
AGGTGCTGAAGTTTGGAGCCTACATCGTGGACGGCCTTAGACAATACAAACAGCCCATCCTGATCTATATCCCGC
CCTATGCGGAGCTCCGGGGAGGCTCCTGGGTGGTCATAGATGCCACCATCAACCCGCTGTGCATAGAAATGTATG
CAGACAAAGAGAGCAGGGGTGGTGTTCTGGAACCAGAGGGGACAGTGGAGATTAAGTTCCGAAAGAAAGATCTGA
TAAAGTCCATGAGAAGGATCGATCCAGCTTACAAGAAGCTCATGGAACAGCTAGGGGAACCTGATCTCTCCGACA
AGGACCGAAAGGACCTGGAGGGCCGGCTAAAGGCTCGCGAGGACCTGCTGCTCCCCATCTACCACCAGGTGGCGG
TGCAGTTCGCCGACTTCCATGACACACCCGGCCGGATGCTGGAGAAGGGCGTCATATCTGACATCCTGGAGTGGA
AGACCGCACGCACCTTCCTGTATTGGCGTCTGCGCCGCCTCCTCCTGGAGGACCAGGTCAAGCAGGAGATCCTGC
AGGCCAGCGGGGAGCTGAGTCACGTGCATATCCAGTCCATGCTGCGTCGCTGGTTCGTGGAGACGGAGGGGGCTG
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FIGURE 3787C

TCAAGGCCTACTTGTGGGACAACAACCAGGTGGTTGTGCAGTGGCTGGAACAGCACTGGCAGGCAGGGGATGGCC
CGCGCTCCACCATCCGTGAGAACATCACGTACCTGAAGCACGACTCTGTCCTCAAGACCATCCGAGGCCTGGTTG
AAGAAAACCCCGAGGTGGCCGTGGACTGTGTGATATACCTGAGCCAGCACATCAGCCCAGCTGAGCGGGCGCAGG
TCGTTCACCTGCTGTCTACCATGGACAGCCCGGCCTCCACCTGA

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FIGURE 3788A

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GGCGGTAGTGCGTCGGCTGCTGCCCCGGGTCTGGCAGAACTCGGGTGTTTTGGGCTGAGACAGTGGCAGCTGCGG
CCCCGACCCCAAGTGCGGGGACCTCCGGCGAATAAAGGTCGGCCTGCGGGTAGGCCGGTAGGGCCTGCGGTCCGG
CCTGCGGGAGAACTGGGTCGTCAGTCCTCCGAGTGGTGGGGCTGGGGACTTTGAGGGAGTTGGCTCTAGGGCACA
GTCCCTGCCTGGCCAGGTCGGAGGAACAAGTGCTGGGATCTGGCGTGTGTGCTCCAGGGGCTCTTTCCGCGGCCC
TTTCCACCTCTTTTCACTTTGGGGACGGTAGGCCTTTATAAACGGACTAATGCTGGGTGATTTGTTCCTGTGGTT
GTTGATGCCGAGGAAAGACTCTGGGCCCCAGGACTCACCTAAACTGGAGTTCGAATACTGTTCGCTCGCTGTGTG
ACCTTGGAAAAAATAACAAGCTTTTCTGAAGTGAGAAGCTGTTCTCAGCCACGAGTCCTGTGCAAGATCACTAAT
GATTACCTGGCATTTCTGCGACACAGGCAGGTCCTCAGGGTTTGTGCAAGTTTGCAAAC<u>ATGT</u>TCACCCTGTCTC
AGACCTCGAGAGCATGGTTCATCGATAGAGCCCGTCAGGCACGAGAAGAAAGGCTTGTGCAGAAGGAACGGGAGC
GGGCAGCTGTTGTGATCCAGGCCCATGTCCGGAGTTTTCTCTGTCGGAGTCGACTGCAGAGAGATATCAGGAGAG
AGATTGATGACTTTTTTAAAGCAGATGACCCTGAGTCCACTAAAAGAAGTGCACTTTGTATTTTCAAGATTGCCA
GGAAACTGCTGTTCCTATTCAGAATCAAAGAGGATAATGAGAGATTTGAGAAGTTGTGTCGCAGCATCCTGAGCA
GCATGGATGCTGAGAATGAGCCTAAGGTGTGGTATGTGTCCCTGGCTTGTTCTAAGGACCTCACCCTCCTTTGGA
TTCAACAGATCAAGAACATTTTGTGGTACTGCTGTGATTTTCTCAAGCAGCTCAAGCCTGAAATCCTGCAGGACT
CCCGACTCATCACCCTGTACCTCACGATGCTTGTCACCTTCACAGACACTTCAACGTGGAAAATTCTTCGGGGAA
AAGGTGAAAGTCTTCGACCAGCGATGAACCACATTTGTGCAAATATAATGGGACATCTCAACCAGCATGGATTTT
ATTCTGTGCTGCAGATATTGTTAACCCGTGGCCTGGCAAGACCCCGTCCTTGTCTATCCAAAGGCACTTTAACAG
CAGCTTTTTCTCTAGCGTTACGCCCTGTGATTGCTGCACAGTTCTCAGACAATCTGATTCGGCCGTTCCTCATCC
ACATCATGTCTGTGCCTGCTCTGGTGACTCATCTCAGCACAGTGACCCCTGAGCGCCTCACTGTTTTAGAATCCC
ATGACATGCTTCGTAAATTCATCATATTTTTAAGAGACCAAGATCGATGCCGTGATGTATGTGAAAGTTTAGAAG
GATGCCATACGCTTTGTCTAATGGGCAACCTCCTACACTTGGGCTCCCTCAGCCCCAGAGTGTTAGAGGAGGAGA
CAGATGGGTTCGTGAGTTTGCTCACCCAGACGCTGTGCTACTGTCGGAAGTATGTGTCTCAGAAGAAGTCCAACC
TGACCCACTGGCATCCTGTCCTTGGCTGGTTCTCCCAATCTGTGGATTATGGCCTTAACGAGTCAATGCACTTGA
TCACCAAACAGCTGCAGTTCTTGTGGGGGGTGCCTCTGATCCGGATCTTCTTCTGTGACATCCTGAGCAAGAAGC
TACTGGAGAGCCAGGAGCCAGCCCACGCACAGCCAGCATCCCCTCAGAATGTGCTCCCAGTGAAGAGTCTCCTAA
AGCGTGCTTTTCAAAAGTCGGCATCAGTCCGGAATATTCTCAGGCCTGTCGGGGGTAAACGGGTCGACTCTGCAG
AAGTCCAGAAGGTTTGCAACATCTGTGTCCTCTACCAGACCTCGCTGACAACTCTCACACAGATTCGGCTGCAGA
TACTCACAGGTCTCACTTACCTTGATGACCTGCTTCCCAAACTGTGGGCATTTATCTGTGAGCTCGGGCCCCACG
GAGGGTTAAAGCTCTTCTTGGAATGCCTGAACAATGACACTGAAGAGTCCAAGCAACTCTTGGCCATGCTGATGC
TGTTCTGTGACTGTTCGCGGCACCTCATCACAATCCTTGATGACATTGAAGTTTATGAAGAACAGATTTCATTCA
AACTGGAAGAGCTGGTCACTATCTCCTCTTTCCTGAATTCTTTTGTGTTTAAGATGATCTGGGATGGAATTGTAG
AGAACGCCAAGGGTGAGACCTTGGAGCTGTTCCAGTCTGTCCACGGGTGGCTTATGGTGCTGTACGAGCGGGACT
GCCGGCGGCGCTTCACCCCCGAGGACCACTGGCTGCGAAAGGATCTCAAACCTAGCGTGCTCTTCCAAGAACTCG
ACAGGGACAGAAACGGGCACAGTTGATCCTGCAGTACATCCCACATGTCATCCCTCACAAAAACAGAGTTCTAC
TGTTTCGAACCATGGTTACCAAGGAGAAGGAGAAACTGGGGCTGGTGGAAACCAGCTCTGCCTCCCCGCATGTCA
CTCACATCACCATCCGCCGGTCCAGGATGCTGGAGAGCTTGTTTGAGTGCCCCTGGCCACTGGTGATCAATGCCG
AGAGCTGCTAGGAAGGCAGTGTGTGCTGAACAGTGGATGTTTCTGACATTCTTCAAGGACGGCTACGAGCAGCTT
AGGCAGCTCTCCCAGCACGCCATGAAGGGGGTCATCCGTGTGAAGTTTGTCAATGACCTCGGGGTGGACGAAGCA
GGGATTGATCAAGACGGTGTTTTTAAGGAGTTCTTGGAAGAGATCATCAAGAGAGTTTTTGACCCAGCACTCAAT
CTGTTCAAGACAACCAGTGGGGATGAGAGGCTGTACCCCTCACCCACATCCTACATCCATGAGAATTACCTGCAG
CTCTTCGAGTTTGTGGGGAAGATGCTGGGGAAGGCTGTGTATGAGGGAATTGTGGTGGACGTGCCATTTGCATCC
TTCTTCCTGAGCCAACTGCTTGGGCACCACCACAGCGTCTTCTATAGCTCGGTGGATGAACTGCCTTCTCTGGAC
TCCGAGTTCTATAAAAACCTCACCTCCATCAAGCGCTATGATGGGGACATCACTGACCTGGGCCTGACGCTGTCT
TACGACGAGGACGTCATGGGTCAGCTTGTTTGCCATGAACTGATTCCTGGAGGGAAGACCATTCCTGTTACAAAT
GAAAATAAGCAACAGAATTAGCTACATCCATCTGATGGCACATTTTCGAATGCACACTCAAATAAAAAACCAAAC
AGCTGCCCTCATTAGCGGATTCCGTTCCATTATCAAACCCGAGTGGATCCGAATGTTCTCAACTCCTGAACTGCA
GCGTCTCATCTCTGGCGACAATGCTGAGATTGATCTGGAAGATTTAAAGAAGCACACAGTCTACTACGGTGGTTT
CCATGGAAGTCACAGAGTCATCATCTGGCTCTGGGATATTCTGGCCTCCGACTTCACACCGGATGAGAGAGCTAT
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4107/6881
FIGURE 3788B

GTTTCTGAAGTTCGTGACCAGCTGCTCCAGACCCCCGCTCCTGGGATTCGCCTACCTCAAGCCTCCATTCTCCAT
CCGCTGCGTGGAGGTGTCGGACGATCAGGACACCGGGGACACTCTGGGCAGCGTCCTCCGGGGCTTCTTCACCAT
CCGCAAGCGGGAGCCAG

4108/6881
FIGURE 3789

MFTLSQTSRAWFIDRARQAREERLVQKERERAAVVIQAHVRSFLCRSRLQRDIRREIDDFFKADDPESTKRSALC
IFKIARKLLFLFRIKEDNERFEKLCRSILSSMDAENEPKVWYVSLACSKDLTLLWIQQIKNILWYCCDFLKQLKP
EILQDSRLITLYLTMLVTFTDTSTWKILRGKGESLRPAMNHICANIMGHLNQHGFYSVLQILLTRGLARPRPCLS
KGTLTAAFSLALRPVIAAQFSDNLIRPFLIHIMSVPALVTHLSTVTPERLTVLESHDMLRKFIIFLRDQDRCRDV
CESLEGCHTLCLMGNLLHLGSLSPRVLEEETDGFVSLLTQTLCYCRKYVSQKKSNLTHWHPVLGWFSQSVDYGLN
ESMHLITKQLQFLWGVPLIRIFFCDILSKKLLESQEPAHAQPASPQNVLPVKSLLKRAFQKSASVRNILRPVGGK
RVDSAEVQKVCNICVLYQTSLTTLTQIRLQILTGLTYLDDLLPKLWAFICELGPHGGLKLFLECLNNDTEESKQL
LAMLMLFCDCSRHLITILDDIEVYEEQISFKLEELVTISSFLNSFVFKMIWDGIVENAKGETLELFQSVHGWLMV
LYERDCRRRFTPEDHWLRKDLKPSVLFQELDRDRKRAQLILQYIPHVIPHKNRVLLFRTMVTKEKEKLGLVETSS
ASPHVTHITIRRSRMLEDGYEQLRQLSQHAMKGVIRVKFVNDLGVDEAGIDQDGVFKEFLEEIIKRVFDPALNLF
KTTSGDERLYPSPTSYIHENYLQLFEFVGKMLGKAVYEGIVVDVPFASFFLSQLLGHHHSVFYSSVDELPSLDSE
FYKNLTSIKRYDGDITDLGLTLSYDEDVMGQLVCHELIPGGKTIPVTNENKISYIHLMAHFRMHTQIKNQTAALI
SGFRSIIKPEWIRMFSTPELQRLISGDNAEIDLEDLKKHTVYYGGFHGSHRVIIWLWDILASDFTPDERAMFLKF
VTSCSRPPLLGFAYLKPPFSIRCVEVSDDQDTGDTLGSVLRGFFTIRKREPGGRLPTSSTCFNLLKLPNYSKKSV
LREKLRYAISMNTGFELS

FIGURE 3790A

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GAAGCGCCGCCGCCACCGCCGCCTTTGCTGTCCCCCGGCCTCTAGTTCCCCGCAGGTGGGAGGTGGGAGCCATGT
CGAAACGGCTCCGGAGCAGCGAGGTGTGCGCTGACTGCAGCGGGCGGATCCTTCCTGGGCATCAGTAAATAGGG
GAACGTTTTTATGTGATGAGTGCTGCAGTGTCCATCGGAGTCTAGGGCGCCATATCTCCCAAGTGAGGCATCTGA
AACACACACCGTGGCCTCCAACACTGCTTCAGATGGTTGAGACCTTGTATAATAACGGTGCTAACTCTATATGGG
AGCATTCTTTGCTGGACCCTGCGTCTATTATGAGTGGAAGACGTAAAGCTAATCCACAGGATAAAGTACATCCCA
ATAAAGCGGAATTCATCAGAGCCAAGTATCAGATGTTAGCGTTCGTCCATCGCTTGCCCTGCCGGGATGACGATA
GTGTGACTGCCAAAGATCTTAGCAAGCAACTCCATTCGAGCGTGAGAACAGGGAATCTTGAAACCTGTTTGAGAC
TGTTATCTTTAGGAGCACAAGCCAACTTCTTTCATCCTGAAAAAGGAAACACCCCACTCCATGTTGCCTCCAAAG
CAGGGCAGATTTTACAGGCTGAATTATTGGCAGTATATGGAGCAGACCCAGGCACACAGGATTCTAGTGGGAAAA
CTCCCGTTGATTATGCAAGGCAAGGAGGGCACCATGAGCTGGCAGAGCGCCTCGTGGAAATACAGTATGAGCTAA
CGGACAGACTAGCCTTCTATCTCTGTGGCAGGAAACCAGATCACAAAAATGGACAGCACTTTATAATACCTCAAA
TGGCAGACAGCAGCCTGGATTTGTCTGAATTGGCAAAAGCTGCTAAGAAGAAACTTCAATCTCTAAGTAATCATT
TGTTTGAAGAACTTGCCATGGATGTGTACGATGAAGTTGACAGGCGAGAGACGGATGCAGTCTGGCTTGCCACGC
AAAACCACAGCGCCCTGGTAACCGAGACAACGGTCGTCCCCTTTCTTCCGGTCAATCCTGAGTACTCATCAACAC
GAAATCAGGGCAGACAGAAGTTAGCTCGGTTCAACGCCCATGAGTTTGCCACGCTGGTCATTGACATTCTCAGTG
ACGCCAAGAGGAGACAGCAGGGCAGTTCTCTCTCGGGTTCAAAAGACAATGTGGAGCTCATACTGAAAACCATCA
ATAACCAGCACAGCGTTGAGAGTCAAGACAACGATCAGCCCGACTATGACAGCGTGGCATCAGACGAAGACACAG
ATTTGGAAACCACTGCAAGCAAAACAAACCGGCAGAAGAGCCTAGATTCAGATTTATCAGATGGACCAGTCACTG
TACAGGAATTTATGGAGGTCAAAAACGCTCTAGTGGCTTCTGAGGCCAAGATACAGCAGCTAATGAAGGTGAATA
ACAACTTGAGTGACGAGCTGAGAATTATGCAGAAAAAGCTTCAAACACTCCAGAGTGAAAATTCGAACCTCAGGA
AACAGGCCACAACCAATGTATATCAGGTGCAAACTGGTTCTGAGTACACAGACACTTCCAACCACTCTTCCTTAA
AGAGACGTCCGTCTGCCCGGGGCAGTAGGCCCATGTCCATGTACGAGACCGGATCAGGTCAGAAACCATATCTCC
CAATGGGAGAAGCGAGCCGCCCCGAAGAGAGCAGGATGAGACTCCAGCCCTTCCCCGCGCACATCGGGAGGAGTG
CACTTGTGACCTCCTCTTCATCTCTGCCTTCCTTCCCCTCCACACTTTCCTGGTCGAGGGACGAAAGCGCCCGAA
GGGCATCCAGGCTGGAGAAGCAGAACAGCACACCTGAGAGTGACTACGACAACACTCCCAACGACATGGAGCCAG
ATGGCATGGGGTCAAGCCGAAAGGGACGGCAAAGAAGTATGGTGTGGCCAGGGGATGGCTTGGTACCAGACACAG
CAGAACCCCATGTGGCCCCAAGCCCCACTCTCCCTAGCACCGAAGATGTCATCAGGAAGACTGAACAGATCACCA
AAAACATACAGGAGCTCTTAAGAGCAGCCCAAGAAAATAAACATGACAGTTATATTCCCTGCTCAGAGAGGATAC
ACGTAGCTGTTACAGAAATGGCAGCATTATTCCCCAAAAAACCCAAGTCTGATATGGTGAGGACTTCCCTTCGTT
TACTGACGTCCAGTGCCTACCGACTGCAGTCAGAGTGCAAGAAGACCCTCCCAGGGGACCCCGGCTCACCCACAG
ACGTTCAGCTGGTCACGCAGCAGGTCATCCAGTGTGCGTACGACATCGCCAAGGCTGCCAAGCAGCTGGTTACCA
TCACCACCAAAGAGAACAACAACTGACAAGGGCAGGGCACCGCCTCCTCTGTTTTCTAGGCTTTATAAAGTCCAA
TTTCAAATTCAGACGCAGAACTCTTCAGATTTCTACAAAAAGAAACATTTAATGACGGTTTAAAACTTTTTAAAA
GAAAACTCAGTATTATTTTTGCATGTTTTCTAACCAATTTTCAACTATTTAACCCACTTGCCTTATTTTGTGCCT
ATTTGCTGGTTTAGTTTCTGATGTTCGGTTGTGTTGTCAACAACTGTTGAGTTGATCACATACATCCAAAAGTAT
AGTTTCATTGTCTAAAGTTTGTGAAAACTTTTCCATCCCTTAAAACTCCCTGCCTATGGCTGAAACTATAAATGA
AATTTTTCATAAAACATTTTCTTGAGAGAGTTCAGTTAAAAAAGAAAAAATCAGCGTCATTTGTTCCCTGCCAAG
CATCGTGCAATAAGTGAATTCCTGGCCTACTTCATAATCTCTAAGTTTGGGGTATCTCCAAGCATGTATGTAGA
GAAAGGACTTTGCCGCTTTTTAAAACTAGTGTCACAGTCTCTCTTGGGAGGAAACAATGAATTGGTTCATTTCTT
CTCAGTGTTTTACCCTGTTACATGTTCTGTTATTTAATGTTGTTATCTCAAGCTCCTATCTCTTGATGTTTTCTT
GTCATCTTGAAGGCTCCATGGAATGAGATAAAGCATTGACCCACCACAGGACATCTCATGAAGCCATGTTCAGGG
TAGGAGCTCCACGCACATCACCACCCATTGTCAGGTGCTCTCCCTCACCCCTGTAAGCCAGACAGTTTGTTCAAA
ACCTGCAGCAAAGAGAAGCATCAGTCTAACAAGCCAGAACTCATTTTGTGCCACCCATTTAGGTATCACTACCAT
GAACTATAGGGAAAAGAAATCACCTACTCCCTGACACTGTGTTGTACCCTTCATCCAAAAGTCAGCTTGCTTCTC
TGACCACTTACAGCTTTCTCACATGAGTTGCTTCACATTTTTCATCATCTTTAAGGACTTCTTATAAGGAAAGAT
GTATCGTATCGCAGTCATCTGAGTTAGTTTCTCCTCCATCACCTCATGAGTACTTAAAAATTAGACATCAACTTT
CAAGAGTTCCTTAGAGAGTGTGCTCTAGCTGGCTGCCTGCTACCCCAAAGCTCTGAAAGAGTAAGGTTGAAGTGC
TGGAACATGCTCAGATTGTTTTTTAGTTACTCAAAAGCCCCTTCTTGTTCTGAATGTGAAAGCTCTTCCCGTTCC
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4110/6881
FIGURE 3790B

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TGCTTACTGCAGCCATTCTGTGTGTGTGGTTCAGACCCTGGCCTAGGGCCGGTGATGTGGATGAGTGAAGGGAGC
CAGGTACACGGCAGCAGGGCAGAGGAGACTATGGGGAGCCCACCGCCTACACAGTAGGGGCAGTAGCCCCCAGCT
CCACGCCTGTTGCCATGTGGAAAAGTGGGCCTAGGGTGGCCACAGCTTTGATTTTTCAAGAGACAAGAAACCTAG
ATGTTTTTTGGTGCCATCTCTCCATTTATAAATGTTGGCAACCAATTTGAACACTTTCAGAGACCATGTGCAGGT
GAGCTGTGTCCTCTAGGCTGCCAGCTCACAGCCCCCACCCCAGGGCCCTGTAAGCTGTGCAGTGTGAGGGCCTGG
CTTCCCCGGACACACCTGGAGCAGCCTCTGAGTCTTACCCGTAATGGAGCCGGCCAACCCTGTGTGTTATGTTGC
TGTCGCTCCTGTTTTTAACCATATGTTCTGTCCCATAGCAGTCATTCACACATGTGAAGAAGACACAAGAATCAA
AGTACAAGTTGCCTCAATACATGCTAATAACTAAGCTTCTATTTTCACAGGACTGATCGATGCACACCTTTATAG
CTTGACCATATGCTGTCATGAAAGTAGCACCCCGACGGTGCTTGCTTTACTAAGTCACCGTGTGTGGATGCTTTT
GTCGCATTTTGCTTCACTGTGAGTAGCATGGGAAAAGGGTCCACGTCTCCAAAAGACTCTTCCACTTGTTTGTCC
CACAGCCCTAAGTGCCACATTGCTGTTGGATGCTCCCGGGATGCCTTCTAGAAGGGGGCCTCCCACCTTAAGTTC
AGGCGCCATCTGATAGCCTTTTCTGCAGGCTTCATGTCCTTAGCTGACCCTCCTTTATCTTGCAAACCCCTGCCC
CTGCTGTCCCAGGGAGGACGGGCTTCTGTAGAGGCTTCTGGGAAATGAGCTGTCTGCAGGAGGTGAAGCAGTGTT
TTCCTTGGAATGTTTGAGGACCTGCAATAGAAGATGTTGCCTTTATGGCCCTAGAGAAAGTCAAGGAACATGGGG
ACCAACAAAGCATTTCCAGTTGTAAGAATATGTCAGAAGAGTGCTCGGTTAGCCCACGGTGCCAAAACTCCAAAC
AAGTTCCCCGGTGGAATGACGTGGCCATTGGAGGGCTGCAGGTCGTCCTCTCTGTATGTGCCCCGCGCATTTCCT
TGGCCTCATCTGAGATCTGGTGTCAGAGTTCTCTGCTCCTGTTGGCAAATCGCACCTTATCTGAACATTTGTTCC
AGCCACCTTTTGCACATGGATTCCGTACCTTGCACTAGCAATGTCTACCTTCAGTAACGTCGTTCTTTTTCACCC
TGTATTCTCAATGATCCCTTCCTCCCCATATGCCACCCTTCCCCCAAAGCTGATAGGGCAGAGGTGCACTTTATG
AAACTGGCACTTGACTGAACAGAAGGAAACAGCTGTACCTCTAAGCTCCTTTCACAGAAATCGTCATCTGCCTTG
GAATGCAAATAGTTCTTATTTGCCAAAGAACAGTGAATTGGGCCCAAAGATCAAACACAGCATTTCATGTAATCA
GAATTCTAAACGCACAACTCGGGAGCTGTGCACGGCTTCTCAAGTGATTCAGTTGCAGAACCAAGAGCAAAACTC
GCCTGTTTTTGTCCTCAATGGCACCCATGAGCTTTCCAATAGTATAGTTTTCTTTCTTTCCTTGTCCTGGTTGAA
GGTAACGTGTTCCTAGAAAAGAAAATGCTGCATAGGAAAACTGAGATGCCTTTTATTCCAACGTGTTTGATCCCT
GTCACTCATTATTCTGTACTTTTTATTGTACATTCTATTCCTGTAATTATTGTGCCCTTTAAGTGTTGTAAAATC
GTTTTGGAATTTGTGCCTGCTAGTTATGCAATAAACAGGCTCTACAAGTG
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FIGURE 3791

MSKRLRSSEVCADCSGPDPSWASVNRGTFLCDECCSVHRSLGRHISQVRHLKHTPWPPTLLQMVETLYNNGANSI
WEHSLLDPASIMSGRRKANPQDKVHPNKAEFIRAKYQMLAFVHRLPCRDDDSVTAKDLSKQLHSSVRTGNLETCL
RLLSLGAQANFFHPEKGNTPLHVASKAGQILQAELLAVYGADPGTQDSSGKTPVDYARQGGHHELAERLVEIQYE
LTDRLAFYLCGRKPDHKNGQHFIIPQMADSSLDLSELAKAAKKKLQSLSNHLFEELAMDVYDEVDRRETDAVWLA
TQNHSALVTETTVVPFLPVNPEYSSTRNQGRQKLARFNAHEFATLVIDILSDAKRRQQGSSLSGSKDNVELILKT
INNQHSVESQDNDQPDYDSVASDEDTDLETTASKTNRQKSLDSDLSDGPVTVQEFMEVKNALVASEAKIQQLMKV
NNNLSDELRIMQKKLQTLQSENSNLRKQATTNVYQVQTGSEYTDTSNHSSLKRRPSARGSRPMSMYETGSGQKPY
LPMGEASRPEESRMRLQPFPAHIGRSALVTSSSSLPSFPSTLSWSRDESARRASRLEKQNSTPESDYDNTPNDME
PDGMGSSRKGRQRSMVWPGDGLVPDTAEPHVAPSPTLPSTEDVIRKTEQITKNIQELLRAAQENKHDSYIPCSER
IHVAVTEMAALFPKKPKSDMVRTSLRLLTSSAYRLQSECKKTLPGDPGSPTDVQLVTQQVIQCAYDIAKAAKQLV
TITTKENNN

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FIGURE 3792A

GAAGCGCCGCCGCCACCGCCGCCTTTGCTGTCCCCCGGCCTCTAGTTCCCCGCAGGTGGGAGGTGGGAGCCATGT
CGAAACGGCTCCGGAGCAGCGAGGTGTGCGCTGACTGCAGCGGGCCGGATCCTTCCTGGGCATCAGTAAATAGGG
GAACGTTTTTATGTGATGAGTGCTGCAGTGTCCATCGGAGTCTAGGGCGCCATATCTCCCAAGTGAGGCATCTGA
AACACACACCGTGGCCTCCAACACTGCTTCAGATGGTTGAGACCTTGTATAATAACGGTGCTAACTCTATATGGG
AGCATTCTTTGCTGGACCCTGCGTCTATTATGAGTGGAAGACGTAAAGCTAATCCACAGGATAAAGTACATCCCA
ATAAAGCGGAATTCATCAGAGCCAAGTATCAGATGTTAGCGTTCGTCCATCGCTTGCCCTGCCGGGATGACGATA
GTGTGACTGCCAAAGATCTTAGCAAGCAACTCCATTCGAGCGTGAGAACAGGGAATCTTGAAACCTGTTTGAGAC
TGTTATCTTTAGGAGCACAAGCCAACTTCTTTCATCCTGAAAAAGGAAACACCCCACTCCATGTTGCCTCCAAAG
CAGGGCAGATTTTACÅGGCTGAATTATTGGCAGTATATGGAGCAGACCCAGGCACACAGGATTCTAGTGGGAAAA
CTCCCGTTGATTATGCAAGGCAAGGAGGGCACCATGAGCTGGCAGAGCGCCTCGTGGAAATACAGTATGAGCTAA
CGGACAGACTAGCCTTCTATCTCTGTGGCAGGAAACCAGATCACAAAAATGGACAGCACTTTATAATACCTCAAA
TGGCAGACAGCAGCCTGGATTTGTCTGAATTGGCAAAAGCTGCTAAGAAGAAACTTCAATCTCTAAGTAATCATT
TGTTTGAAGAACTTGCCATGGATGTGTACGATGAAGTTGACAGGCGAGAGACGGATGCAGTCTGGCTTGCCACGC
AAAACCACAGCGCCCTGGTAACCGAGACAACGGTCGTCCCCTTTCTTCCGGTCAATCCTGAGTACTCATCAACAC
GAAATCAGGGCAGACAGAAGTTAGCTCGGTTCAACGCCCATGAGTTTGCCACGCTGGTCATTGACATTCTCAGTG
ACGCCAAGAGGAGACAGCAGGGCAGTTCTCTCTCGGGTTCAAAAGACAATGTGGAGCTCATACTGAAAACCATCA
ATAACCAGCACAGCGTTGAGAGTCAAGACAACGATCAGCCCGACTATGACAGCGTGGCATCAGACGAAGACACAG
ATTTGGAAACCACTGCAAGCAAAACAAACCGGCAGAAGCTTCAAACACTCCAGAGTGAAAATTCGAACCTCAGGA
AACAGGCCACAACCAATGTATATCAGGTGCAAACTGGTTCTGAGTACACAGACACTTCCAACCACTCTTCCTTAA
AGAGACGTCCGTCTGCCCGGGGCAGTAGGCCCATGTCCATGTACGAGACCGGATCAGGTCAGAAACCATATCTCC
CAATGGGAGAAGCGAGCCGCCCCGAAGAGAGCAGGATGAGACTCCAGCCCTTCCCCGCGCACGCATCCAGGCTGG
AGAAGCAGAACAGCACACCTGAGAGTGACTACGACAACACTCCCAACGACATGGAGCCAGATGGCATGGGGTCAA
GCCGAAAGGGACGGCAAAGAAGTATGGTGTGGCCAGGGGATGGCTTGGTACCAGACACAGCAGAACCCCATGTGG
CCCCAAGCCCCACTCTCCCTAGCACCGAAGATGTCATCAGGAAGACTGAACAGATCACCAAAAACATACAGGAGC
TCTTAAGAGCAGCCCAAGAAAATAAACATGACAGTTATATTCCCTGCTCAGAGAGGATACACGTAGCTGTTACAG
AAATGGCAGCATTATTCCCCAAAAAACCCAAGTCTGATATGGTGAGGACTTCCCTTCGTTTACTGACGTCCAGTG
CCTACCGACTGCAGTCAGAGTGCAAGAAGACCCTCCCAGGGGACCCCGGCTCACCCACAGACGTTCAGCTGGTCA
CGCAGCAGGTCATCCAGTGTGCGTACGACATCGCCAAGGCTGCCAAGCAGCTGGTTACCATCACCACCAAAGAGA
ACAACAACTGACAAGGGCAGGGCACCGCCTCCTCTGTTTTCTAGGCTTTATAAAGTCCAATTTCAAATTCAGACG
CAGAACTCTTCAGATTTCTACAAAAAGAAACATTTAATGACGGTTTAAAACTTTTTAAAAGAAAACTCAGTATTA
TTTTTGCATGTTTTCTAACCAATTTTCAACTATTTAACCCACTTGCCTTATTTTGTGCCTATTTGCTGGTTTAGT
TTCTGATGTTCGGTTGTGTTGTCAACAACTGTTGAGTTGATCACATACATCCAAAAGTATAGTTTCATTGTCTAA
AGTTTGTGAAAACTTTTCCATCCCTTAAAAACTCCCTGCCTATGGCTGAAACTATAAATGAAATTTTTCATAAAAC
ATTTTCTTGAGAGAGTTCAGTTAAAAAAGAAAAAATCAGCGTCATTTGTTCCCTGCCAAGCATCGTGCAATAAGT
GAATTCCTGGCCTACTTCATAATCTCTAAGTTTGGGGTATCTCCAAGCATGTATGTAGAGAAAGGACTTTGCCG
CTTTTTAAAACTAGTGTCACAGTCTCTCTTGGGAGGAAACAATGAATTGGTTCATTTCTTCTCAGTGTTTTACCC
TGTTACATGTTCTGTTATTTAATGTTGTTATCTCAAGCTCCTATCTCTTGATGTTTCTTGTCATCTTGAAGGCT
CCATGGAATGAGATAAAGCATTGACCCACCACAGGACATCTCATGAAGCCATGTTCAGGGTAGGAGCTCCACGCA
CATCACCACCCATTGTCAGGTGCTCTCCCTCACCCCTGTAAGCCAGACAGTTTGTTCAAAACCTGCAGCAAAGAG
AAGCATCAGTCTAACAAGCCAGAACTCATTTTGTGCCACCCATTTAGGTATCACTACCATGAACTATAGGGAAAA
GAAATCACCTACTCCCTGACACTGTGTTGTACCCTTCATCCAAAAGTCAGCTTGCTTCTCTGACCACTTACAGCT
TTCTCACATGAGTTGCTTCACATTTTTCATCATCTTTAAGGACTTCTTATAAGGAAAGATGTATCGTATCGCAGT
CATCTGAGTTAGTTTCTCCTCCATCACCTCATGAGTACTTAAAAATTAGCATCAACTTTCAAGAGTTCCTTAGA
GAGTGTGCTCTAGCTGGCTGCCTGCTACCCCAAAGCTCTGAAAGAGTAAGGTTGAAGTGCTGGAACATGCTCAGA
TTGTTTTTTAGTTACTCAAAAGCCCCTTCTTGTTCTGAATGTGAAAGCTCTTCCCGTTCCTGCTTACTGCAGCCA
TTCTGTGTGTGTGGTTCAGACCCTGGCCTAGGGCCGGTGATGTGGATGAGTGAAGGGAGCCAGGTACACGGCAGC
ÀGGGCAGAGGAGACTATGGGGAGCCCACCGCCTACACAGTAGGGGCAGTAGCCCCCAGCTCCACGCCTGTTGCCA
TGTGGAAAAGTGGGCCTAGGGTGGCCACAGCTTTGATTTTTCAAGAGACAAGAAACCTAGATGTTTTTTGGTGCC

FIGURE 3792B

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ATCTCTCCATTTATAAATGTTGGCAACCAATTTGAACACTTTCAGAGACCATGTGCAGGTGAGCTGTGTCCTCTA
GGCTGCCAGCTCACAGCCCCCACCCCAGGGCCCTGTAAGCTGTGCAGTGTGAGGGCCTGGCTTCCCCGGACACAC
CTGGAGCAGCCTCTGAGTCTTACCCGTAATGGAGCCGGCCAACCCTGTGTGTTATGTTGCTGTCGCTCCTGTTTT
TAACCATATGTTCTGTCCCATAGCAGTCATTCACACATGTGAAGAAGACACAAGAATCAAAGTACAAGTTGCCTC
AATACATGCTAATAACTAAGCTTCTATTTTCACAGGACTGATCGATGCACACCTTTATAGCTTGACCATATGCTG
TCATGAAAGTAGCACCCCGACGGTGCTTGCTTTACTAAGTCACCGTGTGTGGATGCTTTTGTCGCATTTTGCTTC
ACTGTGAGTAGCATGGGAAAAGGGTCCACGTCTCCAAAAGACTCTTCCACTTGTTTGTCCCACAGCCCTAAGTGC
CACATTGCTGTTGGATGCTCCCGGGATGCCTTCTAGAAGGGGGCCTCCCACCTTAAGTTCAGGCGCCATCTGATA
GCCTTTTCTGCAGGCTTCATGTCCTTAGCTGACCCTCCTTTATCTTGCAAACCCCTGCCCCTGCTGTCCCAGGGA
GGACGGGCTTCTGTAGAGGCTTCTGGGAAATGAGCTGTCTGCAGGAGGTGAAGCAGTGTTTTCCTTGGAATGTTT
GAGGACCTGCAATAGAAGATGTTGCCTTTATGGCCCTAGAGAAAGTCAAGGAACATGGGGACCAACAAAGCATTT
CCAGTTGTAAGAATATGTCAGAAGAGTGCTCGGTTAGCCCACGGTGCCAAAACTCCAAACAAGTTCCCCGGTGGA
ATGACGTGGCCATTGGAGGGCTGCAGGTCGTCCTCTCTGTATGTGCCCCGCGCATTCCTTGGCCTCATCTGAGA
TCTGGTGTCAGAGTTCTCTGCTCCTGTTGGCAAATCGCACCTTATCTGAACATTTGTTCCAGCCACCTTTTGCAC
ATGGATTCCGTACCTTGCACTAGCAATGTCTACCTTCAGTAACGTCGTTCTTTTTCACCCTGTATTCTCAATGAT
CCCTTCCTCCCCATATGCCACCCTTCCCCCAAAGCTGATAGGGCAGAGGTGCACTTTATGAAACTGGCACTTGAC
TGAACAGAAGGAAACAGCTGTACCTCTAAGCTCCTTTCACAGAAATCGTCATCTGCCTTGGAATGCAAATAGTTC
TTATTTGCCAAAGAACAGTGAATTGGGCCCAAAGATCAAACACAGCATTTCATGTAATCAGAATTCTAAACGCAC
AACTCGGGAGCTGTGCACGGCTTCTCAAGTGATTCAGTTGCAGAACCAAGAGCAAAACTCGCCTGTTTTTGTCCT
CAATGGCACCCATGAGCTTTCCAATAGTATAGTTTTCTTTCTTTCCTTGTCCTGGTTGAAGGTAACGTGTTCCTA
GAAAAGAAATGCTGCATAGGAAAACTGAGATGCCTTTTATTCCAACGTGTTTGATCCCTGTCACTCATTATTCT
GTACTTTTTATTGTACATTCTATTCCTGTAATTATTGTGCCCTTTAAGTGTTGTAAAATCGTTTTGGAATTTGTG
CCTGCTAGTTATGCAATAAACAGGCTCTACAAGTG
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FIGURE 3793

MSKRLRSSEVCADCSGPDPSWASVNRGTFLCDECCSVHRSLGRHISQVRHLKHTPWPPTLLQMVETLYNNGANSI
WEHSLLDPASIMSGRRKANPQDKVHPNKAEFIRAKYQMLAFVHRLPCRDDDSVTAKDLSKQLHSSVRTGNLETCL
RLLSLGAQANFFHPEKGNTPLHVASKAGQILQAELLAVYGADPGTQDSSGKTPVDYARQGGHHELAERLVEIQYE
LTDRLAFYLCGRKPDHKNGQHFIIPQMADSSLDLSELAKAAKKKLQSLSNHLFEELAMDVYDEVDRRETDAVWLA
TQNHSALVTETTVVPFLPVNPEYSSTRNQGRQKLARFNAHEFATLVIDILSDAKRRQQGSSLSGSKDNVELILKT
INNQHSVESQDNDQPDYDSVASDEDTDLETTASKTNRQKLQTLQSENSNLRKQATTNVYQVQTGSEYTDTSNHSS
LKRRPSARGSRPMSMYETGSGQKPYLPMGEASRPEESRMRLQPFPAHASRLEKQNSTPESDYDNTPNDMEPDGMG
SSRKGRQRSMVWPGDGLVPDTAEPHVAPSPTLPSTEDVIRKTEQITKNIQELLRAAQENKHDSYIPCSERIHVAV
TEMAALFPKKPKSDMVRTSLRLLTSSAYRLQSECKKTLPGDPGSPTDVQLVTQQVIQCAYDIAKAAKQLVTITTK
ENNN

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FIGURE 3794

GGCACGAGGGTTGCTTTTATACTCAGAATGGAAATACCTGATCTTGGCTAGTTTTGTTATAAGATATTGATTTCA
TTTAGATTTCCCTCCACGAGGTCAGCAAACTATCATGTTCTTATGTAAACTTAGGCCAAGGCCAGAGTTATCATA
GTCCCTAGGTTGCTACGGCTTATCATGTGCTTGGTAAAAGGTGATCGCAGGTTCTCAGACGAGTTTACTTTACAT
GAGATGGAATCAGGCAGAGAGGCTGGGATGATGGAGAAAGCTCGAGGTGAAGTTTTAAAAAAAAAGTTGTGGAAA ·
GGAAAGTTCCAAAGAGGTGGTTTCTGAGGAAGTCAGAGCGCCCAGGGCCAGAGCAGTCAGTAATGGGTGAATGAG
GTTGTTTGGAAAGTCGGTGTGACAGACACATGGATGCCATCTACTTCTAGGTTGCTGGTGGGTATTAAATATGCA
CAATATTCCATAGCTCACTGAGGATTTTAAAATTATAAGCATAGGATTTTATATTTTGGGGTGAAAGAATTATCT
GGCACATTAGGTATTGGAGTTTAAAAAAAAAGCCAAATTTCACAGTCTTAATAACTTTTTTTAAAAAAAACTAAA
AGGCGCTTCATGTCCAGTGTGTGGCCCTTCTGAAACTTATGGTCATCTCTCCCACTGAAACCAAGGTCTTTTCAA
ATGTGGCTAAATGGGGATGAGGAGACACGGGTAGGACTTTCTTGGTGTGTGTGCATTCTTTAAAGAGCCAAGTTG
CTTCGGGGAAACAGCCAGGAAAATGGTCAAGATTATTTTTAGAGGTTATTTTATTGGGGATTTTAAGAACTAATA
ACATCTTGAGTTATTTTTAATTCAGGGGGATGTGGAAAGGTTTGCAATTGTCAAGTGTTTTGTTGTAGCTTAGTA
TCCATAAGGGAAACTTAGACTATAGACATAACTACAAAGCCAGTGCAGCTTTTGTTTTCTGTATGTTGTTGGGGG
ATCAACTTTCACACATAGCAAGCACATGGCCTCCCTGATGTCAGGATGCCTTTGTTAGGATCTGTATTTGCCCTT
AATTTTGTTGAAATCTTTTTTCCTTCTTCCTCTTGAAAAGTTCCAAAATATAGTTTATTGTATCTTTCATCACTA
AAAATTTGTTCCTTTTTCACTATGGGCAGTTCACACAAGGCAAAAACTATTGAACAGTTGGTTTTAGTGTGTTGT
ATAACTTTGCTGTATATCAAACTAATTTTGACAAGTTTTCATCCTAAGCCTCAAATCATGTAATTAATAATTTGC
CTGTTTATTTATGACCTAATTGTGATTCTTTTATTAATAAAAGCTAATGGGAAAAGGATCCCTGATTAAGCTGAT
GACTAGACCTACAATTAATTTTCCTGCAGTATATGAAGTATTGTACCAGAGTATTAAAAGATATGTAATATTTTA
TTGATAAATCTATCCTTTAAAAGGAATACGTTTAGGATGTCATCATTTTGATGTGAATCATGTAAATGTTGATA
ATATGCTGTTTATTATACATTTAGTGTTTCAAGAGATTCACTTAATTGCCTTTTTGCCCACGTATATTATGTAGT
CTATTTGCAACTGTTCTTAAAAAAAATGACATTAAAAGAATAGTTTATGTAGAGAAACATTAGTGGATGTTAATTG
TCTCCCCACCTATATTTATGGGTGTTAGCGCAACTGCTTTGCTAGTTGCAAAGCTGTATTATCAGAGTAAAAGTG
TATTTGTAAACTGTATGGGAACTAAAAATTAGGAATAAAACCATTTTCTTATAAAAAAAAAAAAAAAAAAAAAAA

4116/6881
FIGURE 3795

MCLVKGDRRFSDEFTLHEMESGREAGMMEKARGEVLKKKLWKGKFQRGGF

FIGURE 3796A

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GCCCTGCTTCCCCTTGCACCTGCGCCGGGCGGCCATGGACTTGTACAGCACCCCGGCCGCTGCGCTGGACAGGTT
CGTGGCCAGAAGGCTGCAGCCGCGGAAGGAGTTCGTAGAGAAGGCGCGGCGCGCTCTGGGCGCCCTGGCCGCTGC
CCTGAGGGAGCGCGGGGGCCGCCTCGGTGCTGCTGCCCCGCGGGTGCTGAAAACTGTCAAGGGAGGCTCCTCGGG
CCGGGGCACAGCTCTCAAGGGTGGCTGTGATTCTGAACTTGTCATCTTCCTCGACTGCTTCAAGAGCTATGTGGA
CCAGAGGGCCCGCCGTGCAGAGATCCTCAGTGAGATGCGGGCATCGCTGGAATCCTGGTGGCAGAACCCAGTCCC
TGGTCTGAGACTCACGTTTCCTGAGCAGAGCGTGCCTGGGGCCCTGCAGTTCCGCCTGACATCCGTAGATCTTGA
GGACTGGATGGATGTTAGCCTGGTGCCTGCCTTCAATGTCCTGGGTCAGGCCGGCTCCGGCGTCAAACCCAAGCC
ACAAGTCTACTCTACCCTCCTCAACAGTGGCTGCCAAGGGGGCGAGCATGCGGCCTGCTTCACAGAGCTGCGGAG
GAACTTTGTGAACATTCGCCCAGCCAAGTTGAAGAACCTAATCTTGCTGGTGAAGCACTGGTACCACCAGGTGTG
CCTACAGGGGTTGTGGAAGGAGACGCTGCCCCCGGTCTATGCCCTGGAATTGCTGACCATCTTCGCCTGGGAGCA
GGGCTGTAAGAAGGATGCTTTCAGCCTAGCCGAAGGCCTCCGAACTGTCCTGGGCCTGATCCAACAGCATCAGCA
CCTGTGTGTTTTCTGGACTGTCAACTATGGCTTCGAGGACCCTGCAGTTGGGCAGTTCTTGCAGCGGCAGCTTAA
GAGACCCAGGCCTGTGATCCTGGACCCAGCTGACCCCACATGGGACCTGGGGAATGGGGCAGCCTGGCACTGGGA
TTTGCTAGCCCAGGAGGCAGCATCCTGCTATGACCACCCATGCTTTCTGAGGGGGATGGGGGACCCAGTGCAGTC
TTGGAAGGGGCCGGGCCTTCCACGTGCTGGATGCTCAGGTTTGGGCCACCCCATCCAGCTAGACCCTAACCAGAA
GACCCCTGAAAACAGCAAGAGCCTCAATGCTGTGTACCCAAGAGCAGGGAGCAAACCTCCCTCATGCCCAGCTCC
TGGCCCCACTGGGGCAGCCAGCATCGTCCCCTCTGTGCCGGGAATGGCCTTGGACCTGTCTCAGATCCCCACCAA
GGAGCTGGACCGCTTCATCCAGGACCACCTGAAGCCGAGCCCCCAGTTCCAGGAGCAGGTGAAAAAGGCCATTGA
CATCATCTTGCGCTGCCTCCATGAGAACTGTGTTCACAAGGCCTCAAGAGTCAGTAAAGGGGGCTCATTTGGCCG
GGGCACAGACCTAAGGGATGGCTGTGATGTTGAACTCATCATCTTCCTCAACTGCTTCACGGACTACAAGGACCA
GGGGCCCCGCCGCGCAGAGATCCTTGATGAGATGCGAGCGCAGCTAGAATCCTGGTGGCAGGACCAGGTGCCCAG
CCTGAGCCTTCAGTTTCCTGAGCAGAATGTGCCTGAGGCTCTGCAGTTCCAGCTGGTGTCCACAGCCCTGAAGAG
CTGGACGGATGTTAGCCTGCTGCCTGCCTTCGATGCTGTGGGGCAGCTCAGTTCTGGCACCAAACCAAATCCCCA
GGTCTACTCGAGGCTCCTCACCAGTGGCTGCCAGGAGGGCGAGCATAAGGCCTGCTTCGCAGAGCTGCGGAGGAA
CTTCATGAACATTCGCCCTGTCAAGCTGAAGAACCTGATTCTGCTGGTGAAGCACTGGTACCGCCAGGTTGCGGC
TCAGAACAAAGGAAAAGGACCAGCCCCTGCCTCTCTGCCCCCAGCCTATGCCCTGGAGCTCCTCACCATCTTTGC
CTGGGAGCAGGGCTGCAGGCAGGATTGTTTCAACATGGCCCAAGGCTTCCGGACGGTGCTGGGGCTCGTGCAACA
GCATCAGCAGCTCTGTGTCTACTGGACGGTCAACTATAGCACTGAGGACCCAGCCATGAGAATGCACCTTCTTGG
CCAGCTTCGAAAACCCAGACCCCTGGTCCTGGACCCCGCTGATCCCACCTGGAACGTGGGCCACGGTAGCTGGGA
GCTGTTGGCCCAGGAAGCAGCAGCGCTGGGGATGCAGGCCTGCTTTCTGAGTAGAGACGGGACATCTGTGCAGCC
CTGGGATGTGATGCCAGCCCTCCTTTACCAAACCCCAGCTGGGGACCTTGACAAGTTCATCAGTGAATTTCTCCA
GCCCAACCGCCAGTTCCTGGCCCAGGTGAACAAGGCCGTTGATACCATCTGTTCATTTTTGAAGGAAAACTGCTT
CCGGAATTCTCCCATCAAAGTGATCAAGGTGGTCAAGGGTGGCTCTTCAGCCAAAGGCACAGCTCTGCGAGGCCG
CTCAGATGCCGACCTCGTGGTGTTCCTCAGCTGCTTCAGCCAGTTCACTGAGCAGGGCAACAAGCGGGCCGAGAT
CATCTCCGAGATCCGAGCCCAGCTGGAGGCATGTCAACAGGAGCGGCAGTTCGAGGTCAAGTTTGAAGTCTCCAA
ATGGGAGAATCCCCGCGTGCTGAGCTTCTCACTGACATCCCAGACGATGCTGGACCAGAGTGTGGACTTTGATGT
GCTGCCAGCCTTTGACGCCCTAGGCCAGCTGGTCTCTGGCTCCAGGCCCAGCTCTCAAGTCTACGTCGACCTCAT
CCACAGCTACAGCAATGCGGGCGAGTACTCCACCTGCTTCACAGAGCTACAACGGGACTTCATCATCTCTCGCCC
TACCAAGCTGAAGAGCCTGATCCGGCTGGTGAAGCACTGGTACCAGCAGTGTACCAAGATCTCCAAGGGGAGAGG
CTCCCTACCCCCACAGCACGGGCTGGAACTCCTGACTGTGTATGCCTGGGAGCAGGGCGGGAAGGACTCCCAGTT
CAACATGGCTGAGGGCTTCCGCACGGTCCTGGAGCTGGTCACCCAGTACCGCCAGCTCTGTATCTACTGGACCAT
CAACTACAACGCCAAGGACAAGACTGTTGGAGACTTCCTGAAACAGCAGCTTCAGAAGCCCAGGCCTATCATCCT
GGATCCGGCTGACCCGACAGGCAACCTGGGCCACAATGCCCGCTGGGACCTGCTGGCCAAGGAAGCTGCAGCCTG
CACATCTGCCCTGTGCTGCATGGGACGGAATGGCATCCCATCCAGCCATGGCCAGTGAAGGCTGCTGTGTGAAG
TTGAGAAAATCAGCGGTCCTACTGGATGAAGAGAAGATGGACACCAGCCCTCAGCATGAGGAAATTCAGGGTCCC
CTACCAGATGAGAGAGATTGTGTACATGTGTGTGTGAGCACATGTGTGCATGTGTGTGCACACGTGTGCATGTGT
GTGTTTTAGTGAATCTGCTCTCCCAGCTCACACACTCCCCTGCCTCCCATGGCTTACACACTAGGATCCAGACTC
CATGGTTTGACACCAGCCTGCGTTTGCAGCTTCTCTGTCACTTCCATGACTCTATCCTCATACCACCACTGCTGC
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FIGURE 3796B

TTCCCACCCAGCTGAGAATGCCCCCTCCTCCCTGACTCCTCTCTGCCCATGCAAATTAGCTCACATCTTTCCTCC
TGCTGCAATCCATCCCTTCCTCCCATTGGCCTCTCCTTGCCAAATCTAAATAGTTTATATAGGGATGGCAGAGAG
TTCCCATCTCATCTGTCAGCCACAGTCATTTGGTACTGGCTACCTGGAGCCTTATCTTCTGAAGGGTTTTAAAGA
ATGGCCAATTAGCTGAGAAGAATTATCTAATCAATTAGTGATGTCTGCCATGGATGCAGTAGAGGAAAGTGGTGG
TACAAGTGCCATGATTGATTAGCAATGTCTGCACTGGATACGGAAAAAAGAAGGTGCTTGCAGGTTTACAGTGTA
TATGTGGGCTATTGAAGAGCCCTCTGAGCTCGGTTGCTAGCAGGAGAGCATGCCCATATTGGCTTACTTTGTCTG
CCACAGACACAGACAGAGGGAGTTGGGACATGCATGCTATGGGGACCCTCTTGTTGGACACCTAATTGGATGCCT
CTTCATGAGAGGCCTCCTTTTCTTCACCTTTTATGCTGCACTCCTCCCCTAGTTTACACATCTTGATGCTGTGGC
TCAGTTTGCCTTCCTGAATTTTTATTGGGTCCCTGTTTTCTCTCCTAACATGCTGAGATTCTGCATCCCCACAGC
CTAAACTGAGCCAGTGGCCAAACAACCGTGCTCAGCCTGTTTCTCTCTGCCCTCTAGAGCAAGGCCCACCAGGTC
CATCCAGGAGGCTCTCCTGACCTCAAGTCCAACAACAGTGTCCACACTAGTCAAGGTTCAGCCCAGAAAACAGAA
AGCACTCTAGGAATCTTAGGCAGAAAGGGATTTTATCTAAATCACTGGAAAGGCTGGAGGAGCAGAAGGCAGAGG
CCACCACTGGACTATTGGTTTCAATATTAGACCACTGTAGCCGAATCAGAGGCCAGAGAGCAGCCACTGCTACTG
CTAATGCCACCACTACCCCTGCCATCACTGCCCCACATGGACAAAACTGGAGTCGAGACCTAGGTTAGATTCCTG
CAACCACAAACATCCATCAGGGATGGCCAGCTGCCAGAGCTGCGGGAAGACGGATCCCACCTCCCTTTCTTAGCA
GAATCTAAATTACAGCCAGACCTCTGGCTGCAGAGGAGTCTGAGACATGTATGATTGAATGGGTGCCAAGTGCCA
GGGGGCGGAGTCCCCAGCAGATGCATCCTGGCCATCTGTTGCGTGGATGAGGGAGTGGGTCTATCTCAGAGGAAG
GAACAGGAAACAAAGAAAGGAAGCCACTGAACATCCCTTCTCTGCTCCACAGGAGTGCCTTAGACAGCCTGACTC
TCCACAAACCACTGTTAAAACTTACCTGCTAGGAATGCTAGATTGAATGGGATGGGAAGAGCCTTCCCTCATTAT
TGTCATTCTTGGAGAGAGGTGAGCAACCAAGGGAAGCTCCTCTGATTCACCTAGAACCTGTTCTCTGCCGTCTTT
GGCTCAGCCTACAGAGACTAGAGTAGGTGAAGGGACAGAGGACAGGGCTTCTAATACCTGTGCCATATTGACAGC
CTCCATCCCTGTCCCCCATCTTGGTGCTGAACCAACGCTAAGGGCACCTTCTTAGACTCACCTCATCGATACTGC
CTGGTAATCCAAAGCTAGAACTCTCAGGACCCCAAACTCCACCTCTTGGATTGGCCCTGGCTGCTGCCACACACA
TATCCAAGAGCTCAGGGCCAGTTCTGGTGGGCAGCAGAGACCTGCTCTGCCAAGTTGTCCAGCAGCAGAGTGGCC
CTGGCCTGGGCATCACAAGCCAGTGATGCTCCTGGGAAGACCAGGTGGCAGGTCGCAGTTGGGTACCTTCCATTC
CCACCACACAGACTCTGGGCCTCCCCGCAAAATGGCTCCAGAATTAGAGTAATTATGAGATGGTGGGAACCAGAG
CAACTCAGGTGCATGATACAAGGAGAGGTTGTCATCTGGGTAGGGCAGAGAGGAGGGCTTGCTCATCTGAACAGG
GGTGTATTTCATTCCAGGCCCTCAGTCTTTGGCAATGGCCACCCTGGTGTTGGCATATTGGCCCCACTGTAACTT
TTGGGGGCTTCCCGGTCTAGCCACACCCTCGGATGGAAAGACTTGACTGCATAAAGATGTCAGTTCTCCCTGAGT
TGATTGATAGGCTTAATGGTCACCCTAAAAACACCCACATATGCTTTTCGATGGAACCAGGTAAGTTGACGCTAA
AGTTCTTATGGAAAAATACACACGCAATAGCTAGGAAAACACAGGGAAAGAAGAGTTCTGAGCAGGGCCTAGTCT
TAGCCAATATTAAAACATACTATGAAGCCTCTGATACTTAAACAGCATGGCGCTGGTACGTAAATAGACCAATGC
AGTTAGGTGGCTCTTTCCAAGACTCTGGGGAAAAAAGTAGTAAAAAGCTAAATGCAATCAATCAGCAATTGAAAG
CTAAGTGAGAGAGCCAGAGGGCCTCCTTGGTGGTAAAAGAGGGTTGCATTCTTGCAGCCAGAAGGCAGAGAAAG
TGAAGACCAAGTCCAGAACTGAATCCTAAGAAATGCAGGACTGCAAAGAAATTGGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTTTAATTTTTAAAAAGTTTTTATT

4119/6881
FIGURE 3797

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CGGCAGCCAGCTGAGAGCAATGGGAAATGGGGAGTCCCAGCTGTCCTCGGTGCCTGCTCAGAAGCTGGGTTGGTT
TATCCAGGAATACCTGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAGATGGTGAACACCATCTGTGACGT
CCTGCAGGAACCCGAACAGTTCCCCCTGGTGCAGGGAGTGGCCATAGGTGGCTCCTATGGACGGAAAACAGTCTT
AAGAGGCAACTCCGATGGTACCCTTGTCCTCTTCTTCAGTGACTTAAAACAATTCCAGGATCAGAAGAGAAGCCA
ACGTGACATCCTCGATAAAACTGGGGATAAGCTGAAGTTCTGTCTGTTCACGAAGTGGTTGAAAAACAATTTCGA
GATCCAGAAGTCCCTTGATGGGTTCACCATCCAGGTGTTCACAAAAAATCAGAGAATCTCTTTCGAGGTGCTGGC
CGCCTTCAACGCTCTGAGCTTAAATGATAATCCCAGCCCCTGGATCTATCGAGAGCTCAAAAGATCCTTGGATAA
GACAAATGCCAGTCCTGGTGAGTTTGCAGTCTGCTTCACTGAACTCCAGCAGAAGTTTTTTGACAACCGTCCTGG
AAAACTAAAGGATTTGATCCTCTTGATAAAGCACTGGCATCAACAGTGCCAGAAAAAAATCAAGGATTTACCCTC
GCTGTCTCCGTATGCCCTGGAGCTGCTTACGGTGTATGCCTGGGAACAGGGGTGCAGAAAAGACAACTTTGACAT
TGCTGAAGGCGTCAGAACCGTACTGGAGCTGATCAAATGCCAGGAGAAGCTGTGTATCTATTGGATGGTCAACTA
CAACTTTGAAGATGAGACCATCAGGAACATCCTGCTGCACCAGCTCCAATCAGCGAGGCCAGTAATCTTGGATCC
AGTTGACCCAACCAATAATGTGAGTGGAGATAAAATATGCTGGCAATGGCTGAAAAAAGAAGCTCAAACCTGGTT
GACTTCTCCCAACCTGGATAATGAGTTACCTGCACCATCTTGGAATGTTCTGCCTGCACCACTCTTCACGACCCC
AGGCCACCTTCTGGATAAGTTCATCAAGGAGTTTCTCCAGCCCAACAAATGCTTCCTAGAGCAGATTGACAGTGC
TGTTAACATCATCCGTACATTCCTTAAAGAAAACTGCTTCCGACAATCAACAGCCAAGATCCAGATTGTCCGGGG
AGGATCAACCGCCAAAGGCACAGCTCTGAAGACTGGCTCTGATGCCGATCTCGTCGTGTTCCATAACTCACTTAA
AAGCTACACCTCCCAAAAAAAACGAGCGGCACAAAATCGTCAAGGAAATCCATGAACAGCTGAAAGCCTTTTGGAG
GGAGAAGGAGGAGGAGCTTGAAGTCAGCTTTGAGCCTCCCAAGTGGAAGGCTCCCAGGGTGCTGAGCTTCTCTCT
GAAATCCAAAGTCCTCAACGAAAGTGTCAGCTTTGATGTGCTTCCTGCCTTTAATGCACTGGGTCAGCTGAGTTC
TGGCTCCACACCCAGCCCCGAGGTTTATGCAGGGCTCATTGATCTGTATAAATCCTCGGACCTCCCGGGAGGAGA
GTTTTCTACCTGTTTCACAGTCCTGCAGCGAAACTTCATTCGCTCCCGGCCCACCAAACTAAAGGATTTAATTCG
CCTGGTGAAGCACTGGTACAAAGAGTGTGAAAGGAAACTGAAGCCAAAGGGGTCTTTGCCCCCAAAGTATGCCTT
GGAGCTGCTCACCATCTATGCCTGGGAGCAGGGGAGTGGAGTGCCGGATTTTGACACTGCAGAAGGTTTCCGGAC
AGTCCTGGAGCTGGTCACACAATATCAGCAGCTCTGCATCTTCTGGAAGGTCAATTACAACTTTGAAGATGAGAC
CGTGAGGAAGTTTCTACTGAGCCAGTTGCAGAAAACCAGGCCTGTGATCTTGGACCCAGCCGAACCCACAGGTGA
CGTGGGTGGAGGGGACCGTTGGTGTTGGCATCTTCTGGCAAAAGAAGCAAAGGAATGGTTATCCTCTCCCTGCTT
CAAGGATGGGACTGGAAACCCAATACCACCTTGGAAAGTGCCGACAATGCAGACACCAGGAAGTTGTGGAGCTAG
GATCCATCCTATTGTCAATGAGATGTTCTCATCCAGAAGCCATAGAATCCTGAATAATAATTCTAAAAGAAACTT
CTAGAGATCATCTGGCAATCGCTTTTAAAGACTCGGCTCACCGTGAGAAAGAGTCACTCACATCCATTCTTCCCT
TGATGGTCCCTATTCCTCCTTCCCTTGCTTCTTGGACTTCTTGAAATCAATCAAGACTGCAAACCCTTTCATAAA
GTCTTGCCTTGCTGAACTCCCTCTCTGCAGGCAGCCTGCCTTTAAAAATAGTTGCTGTCATCCACTTTATGTGCA
TCTTATTTCTGTCAACTTGTATTTTTTTTCTTGTATTTTTCCAATTAGCTCCTCCTTTTTCCTTCCAGTCTAAAA
AAGGAATCCTCTGTGTCTTCAAAGCAAAGCTCTTTACTTTCCCCTTGGTTCTCATAACTCTGTGATCTTGCTCTC
GGTGCTTCCAACTCATCCACGTCCTGTCTGTTTCCTCTGTATACAAAACCCTTTCTGCCCCTGCTGACACAGACA
TCCTCTATGCCAGCAGCCAGCCAACCCTTTCATTAGAACTTCAAGCTCTCCAAAGGCTCAGATTATAACTGTTGT
CATATTTATATGAGGCTGTTGTCTTTTCCTTCTGAGCCTGCCTTTCTCCCCCCCCACCCAGGAGTATCCTCTTGCC
AAATCAAAAGACTTTTTCCTTGGGCTTTAGCCTTAAAGATACTTGAAGGTCTAGGTGCTTTAACCTCACATACCC
TCACTTAAACTTTTATCACTGTTGCATATACCAGTTGTGATACAATAAAGAATGTATCTGG
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FIGURE 3798

AGTGAGAGGGTCCAAGCCTGGTAAGAATGTCCAGCTTCAGGAGAATGAAATCAGAGGACTGTGCTTAAAGTCTCG
TGAAATCTTTCTCAGTCAGCCTATCCTACTAGAACTTGAAGCACCACTCAAAATATGTGGTGACATCCATGGACA
ATACTATGATTTGCTGCGACTTTTTGAGTACGGTGGTTTCCCACCAGAAAGCAACTACCTGTTTCTTGGGGACTA
TGTGGACAGGGGAAAGCAGTCATTGGAGACGATCTGCCTCTTACTGGCCTACAAAATAAAATATCCTGAGAATTT
TTTTCTTCTCAGAGGGAACCATGAATGTGCCAGCATCAACAGAATTTATGGATTTTATGATGAATGTAAAAGAAG
ATACAACATTAAACTATGGAAAACTTTCACAGACTGTTTTAACTGTTTACCGATAGCAGCCATCGTGGATGAGAA
GATATTCTGCTGTCATGGAGGTTTATCACCAGATCTTCAATCT**ATG**GAGCAGATTCGGCGAATTATGCGACCAAC
TGATGTACCAGATCAAGGTCTTCTTTGTGATCTTTTGTGGTCTGACCCCGATAAAGATGTCTTAGGCTGGGGTGA
AAATGACAGAGGAGTGTCCTTCACATTTGGTGCAGAAGTGGTTGCAAAATTTCTCCATAAGCATGATTTGGATCT
TATATGTAGAGCCCATCAGGTGGTTGAAGATGGATATGAATTTTTTGCAAAGAGGCAGTTGGTCACTCTGTTTTC
TGCGCCCAATTATTGCGGAGAGTTTGACAATGCAGGTGCCATGATGAGTGTGGATGAAACACTAATGTGTTCTTT
TCAGATTTTAAAGCCTGCAGAGAAAAAGAAGCCAAATGCCACGAGACCTGTAACGCCTCCAAGGGTTGCATCAGG
CCTGAACCCGTCCATTCAGAAAGCTTCAAATTATAGAAACAATACTGTTCTATACGAG**TGA**CCGATTATGCTTTC
TTTGGCCTACATTCTTTATTCTGCGGTGAAGTTGAGGCTTATAAGTTAAAACAAAGGAACTAACTTACTGTCCAC
CAGTTTATACAGAACTCACAGTACCTATGACTTTTTTAAACTAAGATCTGTTAAAAAAGAAATCTGTTTCAACAG
ATGACCGTGTACAATACCGTGTGGTGAAAATGAATTCAGACTTATTAAATGATGAACTTGTT

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FIGURE 3799

MEQIRRIMRPTDVPDQGLLCDLLWSDPDKDVLGWGENDRGVSFTFGAEVVAKFLHKHDLDLICRAHQVVEDGYEF
FAKRQLVTLFSAPNYCGEFDNAGAMMSVDETLMCSFQILKPAEKKKPNATRPVTPPRVASGLNPSIQKASNYRNN
TVLYE

4122/6881
FIGURE 3800

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TCCTCTAATTGGGACTCCGAGCCAGGGCTATTTCTCGCGCTGGCGCGGTTCCAAGAAGCATCCCAGCCATCACTC
TTTCACCTGCTCCTTAGAGAAGGGAAGATGAGCGAGTCGAGCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAG
GAAAAGGAGGGCACTGAGAAGCGGGGCCGGGGCAGGCCGCGCAAGCAGCCTCCGATGAGTCCTGGGACAGCGCTT
GTAGGGAGTCAGAAGGAGCCCAGCGAAGTGCCAACACCTAAGAGACCTCGGGGCCAACCAAAGGGAAGCAAAAAC
AAGGGTGCCGCCAAGACCCGGAAAACCACCATAACTCCAGGAAGGAAACCAAGGGGCAGACCCAAAAAACTGGAG
AAGTAGGAAGAGGAGGGCATCTCGCAAGAGTCCTCGGAGGAGGAGCAGTGAACCGTGCGTGCCGCCTGCTCCTCA
CTGGAGGAGCAGCTGCCTTCTGGGACTGGACAGCTTTGCTCCGCTCCCACCGCCCTCGCCCCTTCCGCAGGCCCA
CCATCACCACCGCCTCTGGCCGCCACCCCCATCTTCCACCTGTGCCCACACCACCACACTACGCAGCACACCAGC
CACTGCAGGGCTCCCATGGGCTGAGTGGGGAGCAGTTTTCCCCTGGCCTCAGTTCCCAGCTCCCCCCGCCCACCC
ACGCATACACACATGCCCTCCTGGACAAGGCTAGCATCTCACTTAGCCGCACCCTGCACCTGCTGCGTCCCCACT
CCGTTGGTGGTGGGGACATTGCTCTCTGGGCTTTTGGTTTGGGGGCGCCCTCTCTGCTTCACTGTTCCCTCTGGC
CTCCCATAGTGGGGCCTGGGAGGGTTCCCCTGGCCTTAAAAGGGGCCCAAGCCCCATCTCATCCTGGCACGCCCT
ACTCCACTGCCCTGGCAGCAGCAGGTGTGGCCAATGGAGGGGGGTGCTGGCCCCCAGGATTCCCCCAGCCAAACT
GTCTTTGTCACCACGTGGGGCTCACACTTTTCATCCTTCCCCACCTTCCCTAGTCCCTGCACTAGGTTGGACAGC
CCCCTTCGGCTACAGGAAGGCAGGAGGGGTGAGTCCCCTACTCCCTCTTCACTGTGGCCGCAGCCCCCTTGCCCT
CCGCCTGGGATCGAGTACATATTGTGGTGATGGAGATGCAGTCACTTATTGTCCAGGTGAGGCCCACGAGCCCTG
TGTCCGCCGCCTGAGGTGGGCTGGGGCTGCTCCCCTAACCCTACTTTGCTTCCGCCACTCAGCCATTTCCCCCTC
CTCAGATGGGGCACCAATAGCAAGGAGCTCACCCTGCCCGCTCCCAACCCCGCTCCTGCTCTTCCCTGCCCCTCA
AGGTTCTGGTTCCATTTTTCCTCTGTCCACAAACTACCTCTGAACAGTTGTGTTGTTTTTGTTCAATGTTCCAT
TCTTCCACATCCGTCATTGCTGCTGCTACCAGCGCCAAATATTCATCCTCACTGCCTCCTGTTCTGCCCACGATC
CCCTCCCGCAAGATACTCTTTGTAGGGAAGAGGGGCTGGGGCATGGCAGGCTGGGTGACCGCCTACCCCAGTCCC
AGGGAAGGTGGGGCCCTGCCCCTAGGATGCTGCAGCAGAGTGAGCAAGGGGTCCCGAATCAACCATAAAGGGCGT
AGGGGCCACCTCCTCCCCCTGTTCTGTTGGGGAGGGGTGACCATGATTTGTCCCAGCCTGGGGCTCCCCCTCTGG
TTTCCTATTTGCAGTTACTTGAATAAAAAAAAAATCCTTTTCTGG
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FIGURE 3801

MSESSSKSSQPLASKQEKDGTEKRGRGRPRKQPPVSPGTALVGSQKEPSEVPTPKRPRGRPKGSKNKGAAKTRKT
TTTPGRKPRGRPKKLHRRRRKRRASRRSPRRRSSDPCVPPAPHWRSSFLLGLDSFAPLPPPPPLPQAHHHHRLWP
PPPSSTCALTTTLHSTPAAAGLPWAEWGAVFPWPQFPAPPAHPRIHTCPPGQG

4124/6881
FIGURE 3802

GCGCTGGCGCGGTTCCAAGAAGCATCCCAGCCATCACTCTTTCACCTGCTCCTTAGAGAAGGGAAG**ATG**AGCGAG
TCGAGCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGAGGGCACTGAGAAGCGGGGCCGGGGCAGG
CCGCGCAAGCAGCCTCCGATGAGTCCTGGGACAGCGCTTGTAGGGAGTCAGAAGGAGCCCAGCGAAGTGCCAACA
CCTAAGAGACCTCGGGGCCAACCAAAGGGAAGCAAAAAAAACTGGAGAAGTAGGAAGAGGAGGGCATCTCGCAAG
AGTCCTCGGAGGAGGAGCAGTGAACCGTGCGTGCCGCCTGCTCCTCACTGGAGGAGCAGCTGCCTTCTGGGACTG
GACAGCTTTGCTCCGCTCCCACCGCCCTCGCCCCTTCCGCAGGCCCACCATCACCACCGCCTCTGGCCGCCACCC
CCATCTTCCACCTGTGCCCACACCACCACACTACGCAGCACACCAGCCACTGCAGGGCTCCCATGGGCTGAGTGG
GGAGCAGTTTTCCCCTGGCCTCAGTTCCCAGCTCCCCCCGCCCACCCACGCATACACACATGCCCTCCTGGACAA
GGC**TAG**CATCTCACTTAGCCGCACCCTGCACCTGCT

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FIGURE 3803

MSESSSKSSQPLASKQEKEGTEKRGRGRPRKQPPMSPGTALVGSQKEPSEVPTPKRPRGQPKGSKKNWRSRKRRA
SRKSPRRRSSEPCVPPAPHWRSSCLLGLDSFAPLPPPSPLPQAHHHHRLWPPPPSSTCAHTTTLRSTPATAGLPW
AEWGAVFPWPQFPAPPAHPRIHTCPPGQG

FIGURE 3804

GCATCCCAGCCATCACTCTTTCACCTGCTCCTTAGAGAAGGGAAGATGAGCGAGTCGAGCTCGAAGTCCAGCCAG
CCCTTGGCCTCCAAGCAGGAAAAGGAGGGCACTGAGAAGCGGGGCCGGGGCAGGCCGCGCAAGCAGCCTCCGATG
AGTCCTGGGACAGCGCTTGTAGGGAGTCAGAAGGAGCCCAGCGAAGTGCCAACACCTAAGAGACCTCGGGGCCAA
CCAAAGGGAAGCAAAAACAAGGGTGCCGCCAAGACCCGGAAAACCACCATAACTCCAGGAAGGAAACCAAGGGGC
AGACCCAAAAAACTGGAGAAGTAGGAAGAGGAGGGCATCTCGCAAGAGTCCTCGGAGGAGGAGCAGTGACTTCTG
GGACTGGACAGCTTTGCTCCGCTCC

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FIGURE 3805

GATCCCTGAGCGTGTGGCAGCAGTGCGGTCGTGGTCCCTCCCTATGCAGCCTGGTTTCTAGCGTGACACGCCCTT
GACTTGAGGACC<u>ATG</u>AACCGCAGCCGCCAGGTGACGTGCGTGGCCTGGGTCCGCTGCGGCGTGGCCAAAGAGACA
CCAGACAAGGTAGAGCTGAGTAAAGAAGAAGTAAAACGCCTCATTGCTGAGGCAAAGGAGAAATTGCAAGAAGAA
GGTGGTGGCAGTGATGAAGAGGAGACAGGCAGTCCTTCAGAAGATGGCATGCAGAGTGCACGCACCCAGGCACGC
CCAAGAGAGCCCCTGGAGGATGGTGACCCAGAGGATGACAGGACGCTTGATGATGATGAGCTGGCTGAGTACGAC
TTAGATAAATATGATGAGGAAGGTGACCCAGATGCTGAGACTCTTGGTGAATCTCTCTTGGGTCTTACGGTCTAC
GGGAGTAATGATCAAGATCCTTACGTTACTCTGAAAGATACAGAACAATATGAACGTGAAGATTTCTTGATTAAG
CCCAGTGATAATCTTATAGTTTGTGGCCGAGCTGAACAGGACCAGTGCAATTTAGAGGTGCATGTTTATAATCAA
GAAGAAGACTCTTTTTATGTACACCATGATATACTCTTGTCTGCATATCCTCTGAGTGTGGAATGGCTGAATTTT
GATCCTAGCCCAGATGATTCTACTGGAAATTACATTGCTGTAGGAAACATGACCCCTGTTATTGAAGTGTGGGAC
CTTGATATAGTGGACTCTTTAGAGCCAGTCTTCACACTCGGAAGTAAACTTTCAAAAAAGAAGAAAAAGAAAGGA
AAGAAGAGTTCCTCAGCAGAAGGGCATACCGATGCTGTCCTTGACCTTTCATGGAATAAGCTAATCAGAAATGTT
TTAGCAAGTGCATCAGCTGACAACACTGTAATTCTGTGGGATATGTCCTTGGGGAAACCAGCAGCTAGCCTCGCT
GTACACACAGACAAGGTCCAAACACTGCAGTTTCATCCATTTGAAGCACAGACTCTGATTTCTGGCTCATATGAT
AAGTCAGTGGCTTTGTATGACTGCCGAAGTCCAGATGAAAGCCATCGAATGTGGCGATTCAGTGGGCAGATAGAG
AGAGTGACTTGGAATCACTTTTCACCTTGTCATTTCTTGGCCAGTACAGATGACGGCTTTGTATATAATTTGGAT
GCACGTTCAGATAAGCCAATTTTTACACTTAATGCACACAATGATGAAATCTCTGGTCTTGATCTTAGCAGTCAA
ATCAAGGGCTGTCTCGTGACTGCTTCAGCTGACAAATACGTGAAGATCTGGGACATCTTAGGAGATAGGCCAAGT
CTAGTTCATTCTAGGGACATGAAAATGGGAGTTCTCTTCTGTTCTTCATGTTGCCCTGATTTGCCATTTATTTAT
GCCTTTGGAGGTCAAAAAGAAGGGCTTCGGGTCTGGGATATAAGCACAGTCTCTTCAGTAAATGAAGCATTTGGA
AGACGAGAGAGGCTTGTTCTTGGGAGTGCAAGAAATTCATCTATTAGTGGCCCTTTTGGCAGCAGGAGCTCAGAT
ACACCCATGGAGTCT<u>TAA</u>TGAAGATCATCTAATTTCCTGCTTACCTTAACTGGGAATTTTAAAAAGTTGGCCTAA
AAATGTTCCATGCGTGGCAGCAACCATGCAGAGTGACTGAAACACAATTCATTTCTGACTGACATTCCTTTCTGC
AACTGCGGTGGCACCACAAATATCCGGTCTTTGTGCTTGCTCTTCAGATGGATGGTTTGTAAGGCTCTTGTTGCA
TTTCTTAAAAAAGAGTAATAAAAAGGATTTTTAAAAAGTAATTCCTTAAACAT

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FIGURE 3806

MNRSRQVTCVAWVRCGVAKETPDKVELSKEEVKRLIAEAKEKLQEEGGGSDEEETGSPSEDGMQSARTQARPREP
LEDGDPEDDRTLDDDELAEYDLDKYDEEGDPDAETLGESLLGLTVYGSNDQDPYVTLKDTEQYEREDFLIKPSDN
LIVCGRAEQDQCNLEVHVYNQEEDSFYVHHDILLSAYPLSVEWLNFDPSPDDSTGNYIAVGNMTPVIEVWDLDIV
DSLEPVFTLGSKLSKKKKKKGKKSSSAEGHTDAVLDLSWNKLIRNVLASASADNTVILWDMSLGKPAASLAVHTD
KVQTLQFHPFEAQTLISGSYDKSVALYDCRSPDESHRMWRFSGQIERVTWNHFSPCHFLASTDDGFVYNLDARSD
KPIFTLNAHNDEISGLDLSSQIKGCLVTASADKYVKIWDILGDRPSLVHSRDMKMGVLFCSSCCPDLPFIYAFGG
QKEGLRVWDISTVSSVNEAFGRRERLVLGSARNSSISGPFGSRSSDTPMES

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FIGURE 3807

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GGGGGAGCCCCTGCAAGTTTCCCGGGCCGCGCGCCGCGCTCGCTCGCCTCCCAGCCCGCGGCCCGAGCCGCCGCC
GCGCCCGCCATGCCCTCGGCCAAACAAAGGGGCTCCAAGGGCGGCCACGGCGCCGCGAGCCCCTCGGAGAAGGGT
GCCCACCCGTCGGGCGGCGCGGATGACGTGGCGAAGAAGCCGCCGCCGGCGCCGCAGCAGCCGCCGCCGCCGCCC
GCGCCGCACCCGCAGCAGCACCCGCAGCAGCACCCGCAGAACCAGGCGCACGGCAAGGGCGGCCACCGCGGCGGC
GGCGGCGGCGGCGGCAAGTCCTCCTCCTCCTCCTCCGCCTCCGCCGCCGCTGCCGCCGCCGCCGCCTCGTCCTCG
GCGTCCTGCTCGCGCAGGCTCGGCAGGGCGCTCAACTTTCTCTTCTACCTCGCCCTGGTGGCGGCGGCCGCTTTC
TCGGGCTGGTGCGTCCACCACGTCCTGGAGGAGGTCCAGCAGGTCCGGCGCAGCCACCAGGACTTCTCCCGGCAG
AGGGAGGAGCTGGGCCAGGGCTTGCAGGGCGTCGAGCAGAAGGTGCAGTCTTTGCAAGCCACATTTGGAACTTTT
GAGTCCATCTTGAGAAGCTCCCAACATAAACAAGACCTCACAGAGAAAGCTGTGAAGCAAGGGGAGAGTGAGGTC
AGCCGGATCAGCGAAGTGCTGCAGAAACTCCAGAATGAGATTCTCAAAGACCTCTCGGATGGGATCCATGTGGTG
AAGGACGCCCGGGAGCGGGACTTCACGTCCCTGGAGAACACGGTGGAGGAGCGGCTGACGGAGCTCACCAAATCC
ATCAACGACAACATCGCCATCTTCACAGAAGTCCAGAAGAGGAGCCAGAAGGAGATCAATGACATGAAGGCAAAG
GTTGCCTCCCTGGAAGAATCTGAGGGGAACAAGCAGGATTTGAAAGCCTTAAAGGAAGCTGTGAAGGAGATACAG
ACCTCAGCCAAGTCCAGAGAGTGGGACATGGAGGCCCTGAGAAGTACCCTTCAGACTATGGAGTCTGACATCTAC
ACCGAGGTTCGCGAGCTGGTGAGCCTCAAGCAGGAGCAGCAGGCTTTCAAGGAGGCGGCCGACACGGAGCGGCTC
GCCCTGCAGGCCCTCACGGAGAAGCTTCTCAGGTCTGAGGAGTCCGTCTCCCGCCTCCCGGAGGAGATCCGGAGA
CTGGAGGAAGAGCTCCGCCAGCTGAAGTCCGATTCCCACGGGCCGAAGGAGGACGGAGGCTTCAGACACTCGGAA
GCCTTTGAGGCACTCCAGCAAAAGAGTCAGGGACTGGACTCCAGGCTCCAGCACGTGGAGGATGGGGTGCTCTCC
ATGCAGGTGGCTTCTGCGCGCCAGACCGAGAGCCTGGAGTCCCTCCTGTCCAAGAGCCAGGAGCACGAGCAGCGC
CTGGCCGCCCTGCAGGGGCGCCTGGAAGGCCTCGGGTCCTCAGAGGCAGACCAGGATGGCCTGGCCAGCACGGTG
AGGAGCCTGGGCGAGACCCAGCTGGTGCTCTACGGTGACGTGGAGGAGCTGAAGAGGAGTGTGGGCGAGCTCCCC
AGCACCGTGGAATCACTCCAGAAGGTGCAGGAGCAGGTGCACACGCTGCTCAGTCAGGACCAAGCCCAGGCCGCC
CGTCTGCCTCCTCAGGACTTCCTGGACAGACTTTCTTCTCTAGACAACCTGAAAGCCTCAGTCAGCCAAGTGGAG
GCGGACTTGAAAATGCTCAGGACTGCTGTGGACAGTTTGGTTGCATACTCGGTCAAAATAGAAACCAACGAGAAC
AATCTGGAATCAGCCAAGGGTTTACTAGATGACCTGAGGAATGATCTGGATAGGTTGTTTGTGAAAGTGGAGAAG
ATTCACGAAAAGGTCTAAATGAATTGCGTGTGCAGGGCGCGGATTTAAAGTCCAATTTCTCATGACCAAAAAATG
TGTGGTTTTTTCCCATGTGTCCCCTACCCCCCAATTTCTTGTCCCCTCTTAAAGAGCAGTTGTCACCACCTGAAC
ACCAAGGCATTGTATTTTCATGCCCAGTTAACTTATTTACAATATTTAAGTTCTCTGCTTCTGCATTTGGTTGGT
TTCCTGAAGCGCAGCCCCTGTGAATAACAGGTGGCTTTTCATGGATGTCTCTAGTCAGAGAAAAATGATAAAGGC
TTAAATTGAGGATTAACAGAAGCAGATTAACCTCAGAAATCCTGTCTGGCTGGCAGATTTCAAGTAAAAAAAAAA
AAAAGGTGGGTTGGGGGGACCCTTTTCTTTCTAGTTGTCTTTAAGGAAAATTAATTTTACTTTTTTTTTTGTTCT
GGCCGAAATTTTTATGAGATATCTCTCACTTGTCTTCCACTTTGAACCGGTTAAAGCTCATAGCTGTCAGCTCTG
AATGAGGAGGGGAGAAGCCCCTGGGTCTTTCTTTGAAAGGAATCCGCTGCTTGAGGGCTGCCTCCCTCATGGTGT
GCGTGTCGTTCTCTTCCTGACGCATCTGTGATATCAGAGGTAACTATGCAAAGCATCCAGGCGGTTCTGAATGTG
AAGCACTACACCCAGCAGAGTCCCGGTGCCCTCTGTCCCCACTGCCGGCCCATGTCCTCTCTCCGGAGGTCACCA
AGGAATGCACAGGTTTCGACTACCAGAAAGGGGAGTCCTTGGGTTCTTTCAAAAAATTCGTGAGGAGAGCTGTCT
ACAGTGGAATAGGGGGTCTCCCTGGGGAATGCAGGCCAAGTCCTTTTATTTTAACATGATGTCCATGAAGAGGTT
TGCCGTCTGGGCAGCCCTGTCGGCAAGGAGCGTGCATACTGCGTTTGTGTAATTGTTTGCTGTATCTCCCTTCCC
TCTGAGCTGTATTGTTCTTTAATGGCTGTCTTGCCCTTCCAAAAAAAAATTGAAAAAAAAAAAA
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FIGURE 3808

MPSAKQRGSKGGHGAASPSEKGAHPSGGADDVAKKPPPAPQQPPPPPAPHPQQHPQQHPQNQAHGKGGHRGGGGG
GGKSSSSSSSASAAAAAAAAASSSASCSRRLGRALNFLFYLALVAAAAFSGWCVHHVLEEVQQVRRSHQDFSRQREE
LGQGLQGVEQKVQSLQATFGTFESILRSSQHKQDLTEKAVKQGESEVSRISEVLQKLQNEILKDLSDGIHVVKDA
RERDFTSLENTVEERLTELTKSINDNIAIFTEVQKRSQKEINDMKAKVASLEESEGNKQDLKALKEAVKEIQTSA
KSREWDMEALRSTLQTMESDIYTEVRELVSLKQEQQAFKEAADTERLALQALTEKLLRSEESVSRLPEEIRRLEE
ELRQLKSDSHGPKEDGGFRHSEAFEALQQKSQGLDSRLQHVEDGVLSMQVASARQTESLESLLSKSQEHEQRLAA
LQGRLEGLGSSEADQDGLASTVRSLGETQLVLYGDVEELKRSVGELPSTVESLQKVQEQVHTLLSQDQAQAARLP
PQDFLDRLSSLDNLKASVSQVEADLKMLRTAVDSLVAYSVKIETNENNLESAKGLLDDLRNDLDRLFVKVEKIHE
KV

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FIGURE 3809

ATGGAGGAAGTGGAACTTGATTTGGGTTTGAAGAATAGCGTGGAGGAAGTGGAACTTTATTTGGCTTTGAAGAAT
AGAAACTATGGAGGAGTATATGTTGGCCTACCATCTGAAGCTGTCAATATGGTGTCCAGTCAAACAAAGACGGTT
CGGAAAACTTGCTCATCAGTTTGGAAGGAATTTGGCTCCGTGGGACGTTGTAATGTGCACAGACATTTCCAAGGA
AATTCTAAACAGTCACCCTTCCCTTTTGCATTCCCCCAAATCTTAAGTGTATACATAAAACCCTGGGTACATATT
GTTGTGGTAATAGAAGGGAATTGGTTAAACAGTACACTTGTTTATGGAACTTTCTGTGGCCACCTACGAAAGACA
AGTTAA

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FIGURE 3810

GGCACGAGGCTCTGTCACCTGGGCTGGAGTCCAGTGGCGTGATCATAGCTCACTGTAGCCTCCAACCCCTGGGCT
CAAGTGATCCTCCCCACTCAGCCTACCCAAGCAGCTGGAACTACAGGAGTGGTATGAGGAGCATGCCAGGGAGCA
AGAGCAGCAGCGACAACTCAGCAGCAGTGCAGCCCCCGCCGCCCAGCAGCCCCCAGGCAGCCGCCAGCGCTCCCA
GACCGTTACCTAGCCCAGCGCCCGAAAGCCGTCTCTTCTATGCAATAACACAATAGTATTACTCTACTGCGATGT
ACGGAACTGCGGTGTGTGTACACATACTCACGTATATGCACATATTTATATACAGGAAGAAAAAAGACAGACAAG
ATGGGGCTTGGTTTATAACCACCTTGCCCTGTCTTCCTTAACTCCAGAAGCCAGTTTGGTGAGGGGTGGGGGTGC
GGCCACCAGGTCTGAGCTCTTCCTACTGTGGAAGGCTCCAGAAGGCCCTTCACAAGGAGACCCCTCACCTGGATC
CAGTCGACTGCGGGGCTTGCCCCTCATGTGGGCTGGCCTCCATCGGCCACGTCCAAAGCTGTCACTGCTACTGCT
TCAGGCTCACATCCCCCCGACCTGATGGCGTGCCCGCCCCCTCTCCCTGCGGCCCATGCCACAGGTTTCTGTGTT
TTGCTTTAGGGACAGAACCACTTAGGAAGGAAAGAACTCCCGGTCTCCAGGGTGGTATTTCAGTGTCTGTGATAA
TGTCACGCAACACCTCTTCGGGGACCAGTGCCCAGGATCTAATGGAAGCGGAATTGGGGCAACTGGGCCCATGTG
GCCAGAGCTCAGTTAGCCAGTGCCGGGCGGCCACAGATTACACTGACCAATCTCCTCCCTTGGCTCTGCAAGCCT
CCCACCCAGCCTTCTCTGGCTTAACCCTTGTTGGCGAAAACTCTTCCACAGTGGCCTCCTTGGGGACCCAGAACC
CGGAGGAAGGGGCATGAGGCAGGAAGTGGGGCCGATGTCTGCAACCCAGACCACTTCGTGGAATGGGCTCTTGAC
CAAATCCCTTTTTTTGCGATTTACCCGTTCAAGCAAAACAACGTTTTGGTTAACTAAGGATTGTGCTAAAGCCGA
TACCAGGTCCTTCACACGTGTGCACTAGGAACAGGAGCGAACAGCACAGAGAGACGCTCCCTGTGGGACGCAGCA
GCCCCGTGGCCCCGGCCCAGTTCCCAGCCACCCTCCCTGGCTCTGCTCACACCAGAGATTTCCATAGCAGGAGCG
GTTGGTGCAGAAGTAGGTTCAGATGAACCTCAGTTAACGTCGCCACCCCTCCTCCCACCATGGTACCCTGTAGGA
GCCCTGT**ATG**ACATCTGAGCGTGGTGGAGGTAGGAGGGTTGCCAGCTGCAGTGACCCTGCCACAGAGGCAGGGTC
AGTGCAGAGGTCGCTTTGGTTCCGCTTCCCTGGGCCACAGAACGGAACACAGCATAGGTTCTGCAGCAGGAGCCG
CAGTGGCAGGATGGAGGGTGCGAAGGGCAAGGAGTGCACTGCTGGGCATTCCTGGCCAGCCCCGGCCCTCTGGTG
CCTGCTTCCTGTGACTTCAGAAGGCAGGTGGACAGAGCCTCCCTCTGGCCTTGTCCTCTTCCCAGCCACAGAACG
GGCAGGGTGGCACCCGACCCCAGGGGAGCAGTACCTGGTCCCCCACCCCCTCCTCCCAACCACCTCCAAGGCCAA
GCTGGGTCCCATAGCCAGCACGGCATGGTTCTCCCCTTCCCCCCTTCCCAGGTCAGGGGAGTTGGACAAG**TAG**CA
GGTGTTTGTTTTTAAAGCACAGCCCTTTGGGAAAGCAACACATTATTGAGACTCACTGTGATTCCCCGGGAGTC
AGACTGGCTTTGTCCTCTTCCTCTCTGGAGGGCCATGGGCCATCAGCAGGAGCTCCACATCGAGCCCCAGGCCAG
AACCCCCTCCCTTTCACAGAGAGGGAACTTTATTGCACAATTGGGTGCCTTTTAGCTTTTGTGTGTTGAAATGGG
CGTTTTGGAAGCAAGGGTCAGGGGACAGCTTCTAAAGGTGTGAGTCTCTGACCTGAGCATCTGGGCCTCGCCTGG
GCCCTTCTTCCTCCCCAGGGGTGGAAACGTGGAGGGGCCAGCAGCACCCCGGGGTCTGCCCAGGGGAGTCAAGGC
CCCGAGGTGGGGGGGCCTATTCCAGGAGGAGTGGGATCTCGGCCCTGTCCAGAGCGAGTTAATGTGTCCATCTGC
CCAACCCTGTCCTGAGAAAGGACCTGGTTTTGGCCAGGACCTGACAAATACCCAATGGCAGCAGTGTCAACAGAC
GGGAGTCCAGCCAGGGTGGGTGCCCTTGTCATTGAGGTTAGGGACAGCTATCCCCAGGTTATGCCTGGCCCCACC
CAGCAGGGAGTTGGGGTCCCCCCACAGGCTGTGAGCTCTGTGGGCCCTGGGATGTGATCTAGCTCAGATGCCCTC
TCATCCTTGATGTCATAGTTGAGTGCACCCAAGTGGCACCCACTGGCGGCCAGGGGCACAGCCTGGTGGTGGTGG
CAATAGAACTGTGCCCCTCCTCAGCTCCTCGCTTCCCCTCCCACAGCCCCAGCCTTACTCCACCATGCGGACAAT
CATTTTGTACGGATCACGGGAGCAATGCTGTACGGTTTTGTACACTGGTGGTTTGTTTCCTAGAAAACCCATTGT
GTCTCTGGATTTCTAGCACATTACTAAAAGAGCCTCTGCTTTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3811

MTSERGGGRRVASCSDPATEAGSVQRSLWFRFPGPQNGTQHRFCSRSRSGRMEGAKGKECTAGHSWPAPALWCLL
PVTSEGRWTEPPSGLVLFPATERAGWHPTPGEQYLVPHPLLPTTSKAKLGPIASTAWFSPSPLPRSGELDK

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FIGURE 3812

GATGCGGCTGTGATTGCTGAATTGTCTGGGCAGGTTTGGAGTCTCTGGCAAGCTCCCCTGACTGTGCATCCCTCT
GGAGACGAAGAGGAGGGGGAGGCCTGTCCTCTCTGGGATCCATTGGTCACATCCCCCTGAGGATTCCCGAATGCC
TACCTCCAGTGTCGTCAACATGGAGTTCTGAAGTCCATGTGGCTCTTCACAGTGAATCAGGTGTTAAGGAAGATG
CAGAGACGCCACAGCAGCAACACGGATAACATTCCACCTGAAAGCTGTGACCAAGGCTGGCCCCTCTGGGGAACT
GGGGGCCATTGAACTTGAAGACTGCAGAGCCAGCGGTCCTTGGGATCCCGAGAAACCGCAGCCAGGCGCTCAGCT
CCGAGGCGAGTGTGGATGAAGGTGGCGTCTTTGAGAGTCTGAAGGCAGAGGCAGCCTCCCCACCAGCGCTCTTCT
CGGGCTTATCAGGCAGCCTCCCCACCAGCTCGTTCCCCTCCAGCCTGGTGCTGGGCTCCTCGGCTGGCGGCGGGG
ACGTGTTCATCCAG**ATG**CCCGCGTCCAGGGAGGAAGGAGGGGGCCGGGGCGAGGGGGGCGCCTACCACCACCGCC
AGCCCCACCACCATTTCCACCATGGCGGCCACCGCGGGGGCTCCCTGCTGCAGCACGTGGGTGGGGACCACCGGG
GGCACTCGGAGGAGGGAGGCGACGAGCAGCCTGGGACGCCCGCCCCCGCCCTGTCCGAGCTGAAGGCTGTGATCT
GCTGGCTCCAGAAAGGACTCCCCTTCATCCTGATCCTCCTGGCCAAACTGTGCTTTCAGCATAAGCTCGGCATTG
CTGTGTGCATCGGGATGGCCAGCACCTTCGCCTATGCCAACTCCACGCTTCGAGAACAGGTCTCACTGAAGGAGA
AGAGGTCAGTGCTGGTCATCTTGTGGATCCTGGCCTTTCTGGCGGGGAACACCCTCTATGTGCTTTATACATTCA
GCTCCCAGCAGCTGTACAACAGCCTCATATTCCTGAAGCCCAACCTGGAGATGCTGGACTTCTTTGACCTGCTAT
GGATTGTGGGGATCGCAGACTTTGTTCTGAAGTACATCACCATCGCCCTCAAGTGCCTCATCGTGGCCCTGCCCA
AGATCATCCTGGCCGTCAAGTCCAAGGGAAAGTTCTATCTGGTCATCGAGGAGCTGAGCCAGCTGTTCCGATCCC
TTGTCCCCATCCAGCTGTGGTACAAATACATCATGGGTGACGACTCCTCCAACAGCTACTTCCTGGGCGGGGTCC
TGATCGTTCTCTACAGCCTCTGCAAGTCCTTCGACATCTGTGGACGTGTGGGCGGAGTTAGGAAAGCCCTGAAGC
TTCTCTGTACCTCTCAGAACTATGGAGTCCGAGCCACCGGGCAGCAGTGCACAGAAGCTGGTGACATCTGCGCCA
TCTGTCAGGCCGAGTTCCGAGAGCCTCTGATTCTCCTGTGCCAGATGCTGTTGAAGGGGCACAAGAAATTGGAGC
TGGAGAAGATTGATGAAAGTGCAGGTGTG**TAA**GGAAATAGAACAGTCTGCTGGGAGTCAGACCTGGAATTCTGAT
TCCAAACTCTTTATTACTTTGGGAAGTCACTCAGCCTCCCCGTAGCCATCTCCAGGGTGACGGAACCCAGTGTAT
TACCTGCTGGAACCAAGGAAACTAACAATGTAGGTTACTAGTGAATACCCCAATGGTTTCTCCAATTATGCCCAT
GCCACCAAAACAATAAAACAAAATTCTCTAACACTGAT

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FIGURE 3813

MPASREEGGGRGEGGAYHHRQPHHHFHHGGHRGGSLLQHVGGDHRGHSEEGGDEQPGTPAPALSELKAVICWLQK
GLPFILILLAKLCFQHKLGIAVCIGMASTFAYANSTLREQVSLKEKRSVLVILWILAFLAGNTLYVLYTFSSQQL
YNSLIFLKPNLEMLDFFDLLWIVGIADFVLKYITIALKCLIVALPKIILAVKSKGKFYLVIEELSQLFRSLVPIQ
LWYKYIMGDDSSNSYFLGGVLIVLYSLCKSFDICGRVGGVRKALKLLCTSQNYGVRATGQQCTEAGDICAICQAE
FREPLILLCQMLLKGHKKLELEKIDESAGV

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FIGURE 3814

GAACTGCCATCTTCTAGTAATTCGCCAAA<u>ATG</u>ACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCATGTATATGTGAATCTATAAGAAAGGTGATATCGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCGTAAGTGTTACCATGGCAAAACTGGAAGAGTCTACA
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCGAGAGAATTAATG
TGCATATTGAGCACATTAAGCACTCTGAGAGCCGAGATAGCTTCCTGAAATGCATGAAGGAAAATGATCAGAAAA
AGAAAGAAGCGGAAGAGAAAGGTACCTGGGTTCAACTCAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTG
TGAGAGCCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTGTGAATTCATGGCA<u>TAA</u>TAGGTGTTAAAAA
AAAAAAAAAAAAAGACCTCTGGGCTAT

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FIGURE 3815

MRTQRERGEAPDICSLGLLENMELFLWPCICEIYKKGDIVDIKGMGTVQKGMPRKCYHGKTGRVYNVTQHAVGIV
VNKQVKGKILAERINVHIEHIKHSESRDSFLKCMKENDQKKKEAEEKGTWVQLKRQPAPPREAHFVRANGKEPEL
LEPIPCEFMA

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FIGURE 3816

GGGGGGGTCTGCGTCTTCCCGAGCCAGTGTGCTGAGCTCTCCGCGTCGCCTCTGTCGCCCGCGCCTGGCCTACCGC
GGCACTCCCGGCTGCACGCTCTGCTTGGCCTCGCCATGCCGGTGGACCTCAGCAAGTGGTCCGGGCCCCTTGAGCC
TGCAAGAAGTGGACGAGCAGCCGCAGCACCCGCTGCATGTCACCTACGCCGGGGCGGCGGTGGACGAGCTGGGCA
AAGTGCTGACGCCCACCCAGGTTAAGAATAGACCCACCAGCATTTCGTGGGATGGTCTTGATTCAGGGAAGCTCT
ACACCTTGGTCCTGACAGACCCGGATGCTCCCAGCAGGAAGGATCCCAAATACAGAGAATGGCATCATTTCCTGG
TGGTCAACATGAAGGGCAATGACATCAGCAGTGGCACAGTCCTCTCCGATTATGTGGGCTCGGGGCCTCCCAAGG
GCACAGGCCTCCACCGCTATGTCTGGCTGGTTTACGAGCAGGACAGGCCGCTAAAGTGTGACGAGCCCATCCTCA
GCAACCGATCTGGAGACCACCGTGGCAAATTCAAGGTGGCGTCCTTCCGTAAAAAGTATGAGCTCAGGGCCCCGG
TGGCTGGCACGTGTTACCAGGCCGAGTGGGATGACTATGTGCCCAAACTGTACGAGCAGCTGTCTGGGAAG**TAG**G
GGGTTAGCTTGGGGACCTGAACTGTCCTGGAGGCCCCAAGCCATGTTCCCCAGTTCAGTGTTGCATGTATAATAG
ATTTCTCCTCTTCCTGCCCCCCTTGGCATGGGTGAGACCTGACCAGTCAGATGGTAGTTGAGGGTGACTTTTCCT
GCTGCCTGGCCTTTATAATTTTACTCACTCACTCTGATTTATGTTTTGATCAAATTTGAACTTCATTTTGGGGGG
TATTTTGGTACTGTGATGGGGTCATCAAATTATTAATCTGAAAATAGCAACCCAGAATGTAAAAAAGAAAAAACT
GGGGGGAAAAAGACCAGGTCTACAGTGATAGAGCAAAGCATCAAAGAATCTTTAAGGGAGGTTTAAAAAAAAAAA
AAAAAAAAAGATTGGTTGCCTCTGCCTTTGTGATCCTGAGTCCAGAATGGTACACAATGTGATTTTATGGTGAT
GTCACTCACCTAGACAACCAGAGGCTGGCATTGAGGCTAACCTCCAACACAGTGCATCTCAGATGCCTCAGTAGG
CATCAGTATGTCACTCTGGTCCCTTTAAAGAGCAATCCTGGAAGAAGCAGGAGGGAGGGTGGCTTTGCTGTTGTT
GGGACATGGCAATCTAGACCGGTAGCAGCGCCTCGCTGACAGCTTGGGAGGAAACCTGAGATCTGTGTTTTTTAA
ATTGATCGTTCTTCATGGGGGTAAGAAAAGCTGGTCTGGAGTTGCTGAATGTTGCATTAATTGTGCTGTTTGCTT
GTAGTTGAATAAAAACCCG

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FIGURE 3817

MPVDLSKWSGPLSLQEVDEQPQHPLHVTYAGAAVDELGKVLTPTQVKNRPTSISWDGLDSGKLYTLVLTDPDAPS
RKDPKYREWHHFLVVNMKGNDISSGTVLSDYVGSGPPKGTGLHRYVWLVYEQDRPLKCDEPILSNRSGDHRGKFK
VASFRKKYELRAPVAGTCYQAEWDDYVPKLYEQLSGK

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FIGURE 3818

GCTCTCCGCGTCGCCTCTGTCGCCCGCGCCTGGCCTACCGCGGCACTCCCGGCTGCACGCTCTGCTTGGCCTCGC
CATGCCGGTGGACCTCAGCAAGTGGTCCGGGCCCTTGAGCCTGCAAGAAGTGGACGAGCAGCCGCAGCACCCGCT
GCATGTCACCTACGCCGGGGCGGCGGTGGACGAGCTGGGCAAAGTGCTGACGCCCTGTGCCGGCCTCCTGGGTGG
GACCCAGCGGAGACAGGGCCAGGGGCGGTGGGGAGGTTCAGCCTGCGTGTGTCGAGGCCCCCCCAGGCCAGAGGT
CCCGGGGTCCATGTCCCATGCCTGGGGGCCACCCCGAGCACCGGGAACCCGGCCTGTGGCGTGGCCAGGCAGGTT
CGGCCTGCGGCAGAAATTCATTCACTTTTCCCGGGCTTCAGACCCAAGAGGGACCTAGGTTCGGAAACAGGCCGG
ATCCCCCTCTCCCCCCACAGGCCAGGGCGCTGGAGAGGGACGTCGCCGGGACAGAGTAGGCTGTGGCTGCCCGGA
CGCCCCCAGAGCTTCCCCTAGGGCCTCAGCATTTTAGGCCTGGTTTTGGAGGGCTGAAGCCTCACCCGAGAGCCT
GTGACGCATTATGTAACTGGC

FIGURE 3819

CGGGAGCGGGGACCCGAGCCTGCAGCCGAGCTCCGCTGCCGGCCCTGGACACTCGGCTCAGCCAAGCATCCTTCC
TGGGGGCCGAGGAAGTGGGGCCACTCTGCCGTTCCGAGGACCTGGGAGGAGCCCTCGGTACCCCGGGCCCCGGGG
CCCTGGGGCACACACGTCCAGCCCAGCCCGAGCCTGCGTTTCCTGAGCCGGGATCTGGGGCGAG<u>ATG</u>GCCGCAGG
CGGCAGTGCGCCCGAGCCCCGCGTCCTCGTCTGCCTCGGGGCGCTCCTGGCCGGCTGGGTCGCCGTAGCCCAAGG
<u>TTGA</u>ACTCGCCTTACACCTGTAACCGGTGGACTTCCCTACACACCTTTGCAAGTCTTCCTGTGCCGACCAGCGCC
TTCAAAGCGGGGTCTTCCGCCTTTACTTTTGGAAAAGCTTTTTATTTTGAAATACTTGGCTGACTTACAAAAGAC
TTCCCCTCACACTTGACATGATTGACAAAAGGTCTGAAATGCTTCATCTATGGTCTGCTTTGCTACGAAAAAAGA
ATTGGAGGGGTGCTTACAAAAATATGTAGAATGTAAAAAGATTGAACTATTTATATATATTTGAATTTAATTCAC
CAGCATGCCTACTGTGCATGCCTACTGTGTGCTGGGAGTGTGACAAGCTGGGAGGAGGCTGGGGTGCAGGGAGAG
GAGATGGAGCCAGGAGGTGGTGAAGTTTGCCAGGATGCAGGCAGAGCGCTACTTTTTGTGTTCCCGGGTCTGCTC
CACCCAACGGGTCTCCTCTTGCACGTTTCTGGAGATGGGTTGTAAAGTATGCTGGAGCTTCTTAGCAGCAAGTGC
CAAGAGTTCCTAATTATTAGGCTCATACAATTTTATTTTGCTTTTTTTTTTTTAACCAACCATTTAAAAACAATA
ACATCTCTAGATTTCCAGTTTATCTGGAAAAATCTGAAGGTCTGGCAACACGGGGCCTGCTTTCCCAGTTGGAAT
TGGGCAGTGGTCATCCTCTTATCTAGGGCATATGAGCCCAAATTTGTTCCACCTCTCCCTGTTGTAATATTTGCC
CCGCCACCTTCAGTCATGGGTGTTACCTGCTGGCCCTGCAGGCATTTGGCTGAGTAATCACTGTGCTGGGGTGTG
GGTGATGGGGGAGGACAGTTCCTAGTTGGTCATCTCTGGACGTGAAAGGTGGTTGTCAAGTATTCCCATCTCCCC
AGCTGTTTGCAGTGTTTCCTGCACGATGAACACCAGGAACCTGGGAAGTGAGAAGAACCCTGGGATGAAGTCATC
CTGCTGGAATGACCTGGCTTTCAGGCTGACTGCCACCCGCCCCATGGGGAACCTATCTCCACTGCTATGGCCAGC
TATTTTTTTCGAGCCAGGCTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTGGTGCAATCACTGCACTGATCCTCC
CACCTCAGCCTACAAGTAGCTGGGACTACAGGCGTGCACCACCACGCCTAGCTAATTTCTAAAATTTTTTGTAG
AGACGGTCTCTACAATCGCTTGAGCCCAGGCTGGTCTTAAACTCCTGGACCCAAGCGATCCTCCTGTCTCGGCCT
CCCAAAGTGTTGGGATTATGGGTGTGAGCCACCGTGTTGGGCCTTTGCCCAGCTATTTTGATGCCCAGACCTGCT
TCACCTTTGTGTATGATGCCAGGGGGCTTCCTGAGCTTGGTGTATTTTTGTTGTGTGTTTGTTTTTTAAGTTGGG
AGTTTTTGGGGAAAAAAATTTTTCTCCTGACATTCAATGCCAGACAACTTATATGCATCCACTAGCTACCCCGGA
TTGTAAATCCTAGGTTATTCTTGGGAAAAGTTGCTTTAAAAAAAATAAATAAATGTTTGGGTAT

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FIGURE 3820

MAAGGSAPEPRVLVCLGALLAGWVAVAQG

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FIGURE 3821

AAAACAACAAATGGCGGATGACGCCGGTGCAGCGGGGGGGCACGGAGGCCCTGGTGGCCCTGGGATGGGGAACCG
CGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGCCGTGGACGGGGCCGGGGCCGAGG
CCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCGTCACCAAGTTGGGCCGCTTGGTCAAGGA
CATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAGGAATCAGAGATCATTGATTTCTT
CCTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCCAGCCAGCGCAC
CAGGTTCAAGGCGTTTGTTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGGT
GGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATTGTCCCCGTGCGCAGAGGCTACTGGGGGAA
CAAGATCGGCAAGCCCCACACTGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCCC
TGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTCATGATGGCTGGTATCGATGACTG
CTACACCTCAGCCCGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGAC
CTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCACTGACCA
CCTCGTTAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGATCCAGCTGTGGCTACAACATAGGGTTTTTA
TACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 3822

MADDAGAGGGGGGAGGPGGPGMGNRGAFRGGFGSGIRGRGRGRGRGQGQGCGARGGKAEDKEWMPVTKLGRLVKE
MKIKSLEEIYLFSLPIKESEIIDVFLGASLKDEVLKIMLVQKQTRAGQRTRFKAFFAIGDYNGHVGLGVKCSKEV
ATAIRGAIILAKLSIVPVHRGYWGNKIGKPHTVPCKVTGRCGSVPARLIPAHGGTGIVSAPVPKKLLMMAGIDDC
YTSARGCTATLGNFAKATFDAISKTYSYLTPNLWKETVFTKSPYQEFTDHLVKTHTRVSVQWTQAPAVATT

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FIGURE 3823

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CGACTCGTCGCCATTCCCGGAGCAGGTCGGCCTCGGCCCAGGGGCGAGTATCCGTTGCTGTGTCGGAGACACTAG
TCCCCGACACCGAGACAGCCAGCCCTCTCCCCTGCCTCGCGGCGGGAGAGCGTGTCCGGCCGGCCGGCCGGCGGG
GCTCGCGCAACCTCCCTCGCCTCCCCTTCCCCCGCAGCCTCCGCCCCGCCAGGCCCGGCCCGGACTCCCGAGCCC
CGGCCTCCTCGTCCTCGGTCGCCGCTGCCGCCGGGCTTAACAGCCCCGTCCGCCGCTTCTCTTCCTAGTTTGAGA
AGCCAAGGAAGGAAACAGGGAAAAATGTCGCCATGAAGGCCGAGAACCGCTGCCGCCGCCGACCCCCGCCGGCCC
TGAACGCCATGAGCCTGGGTCCCCGCCGCGCCCGCTCCGCTCCGACTGCCGTCGCCGCCGAGGCCCCCGTTGATG
CCGCTGAGCTCCCCCAACGCCGCCGCCACCGCCTCCGACATGGACAAGAACAGCGGCTCCAACAGCTCCTCCGCC
TCTTCGGGCAGCAGCAAAGGGCAACAGCCGCCCCGCTCCGCCTCGGCGGGGCCAGCCGGCGAGTCTAAACCCAAG
AGCGAATTACTAATTTCAGCTGGATTCAATTTGTTGTCAGTTGATTCTGTAGTAAGGCCATATGTTGCCCCTCTG
GAGGTGCTTGTCAACTACTCTGGATGATGGATGGAAAGAACTCCAGTGGATCCAAGCGTTATAATCGCAAACGTG
AACTTTCCTACCCCAAAAATGAAAGTTTTAACAACCAGTCCCGTCGCTCCAGTTCACAGAAAAGCAAGACTTTTA
ACAAGATGCCTCCTCAAAGGGGCGGCGGCAGCAGCAAACTCTTTAGCTCTTCTTTTAATGGTGGAAGACGAGATG
AGGTAGCAGAGGCTCAACGGGCAGAGTTTAGCCCTGCCCAGTTCTCTGGTCCTAAGAAGATCAACCTGAACCACT
TGTTGAATTTCACTTTTGAACCCCGTGGCCAGACGGGTCACTTTGAAGGCAGTGGACATGGTAGCTGGGGAAAGA
GGAACAAGTGGGGACATAAGCCTTTTAACAAGGAACTCTTTTTACAGGCCAACTGCCAATTTGTGGTGTCTGAAG
ACCAAGACTACACAGCTCATTTTGCTGATCCTGATACATTAGTTAACTGGGACTTTGTGGAACAAGTGCGCATTT
GTAGCCATGAAGTGCCATCTTGCCCAATATGCCTCTATCCACCTACTGCAGCCAAGATAACCCGTTGTGGACACA
TCTTCTGCTGGGCATGCATCCTGCACTATCTTTCACTGAGTGAGAAGACGTGGAGTAAATGTCCCATCTGTTACA
GTTCTGTGCATAAGAAGGATCTCAAGAGTGTTGTTGCCACAGAGTCACATCAGTATGTTGTTGGTGATACCATTA
CGATGCAGCTGATGAAGAGGGAGAAAGGGGTGTTGGTGGCTTTGCCCAAATCCAAATGGATGAATGTAGACCATC
CCATTCATCTAGGAGATGAACAGCACAGCCAGTACTCCAAGTTGCTGCTGGCCTCTAAGGAGCAGGTGCTGCACC
GGGTAGTTCTGGAGGAGAAAGTAGCACTAGAGCAGCAGCTGGCAGAGGAGAAGCACACTCCCGAGTCCTGCTTTA
TTGAGGCAGCTATCCAGGAGCTCAAGACTCGGGAAGAGGCTCTGTCGGGATTGGCCGGAAGCAGAAGGGAGGTCA
CTGGTGTTGTGGCTGCTCTGGAACAACTGGTGCTGATGGCTCCCTTGGCGAAGGAGTCTGTTTTTCAACCCAGGA
AGGGTGTGCTGGAGTATCGTCTGCCTTCGATGAAGAAACCACGGAAGTTTGTTCTCTGGACACTCCTTCTAGAC
CTCTTGCTCTCCCTCTGGTAGAAGAGGAGGAAGCAGTGTCTGAACCAGAGCCTGAGGGGTTGCCAGAGGCCTGTG
ATGACTTGGAGTTAGCAGATGACAATCTTAAAGAGGGGACCATTTGCACTGAGTCCAGCCAGCAGGAACCCATCA
CCAAGTCAGGCTTCACACGCCTCAGCAGCTCTCCTTGTTACTACTTTTACCAAGCGGAAGATGGACAGCATATGT
TCCTGCACCCTGTGAATGTGCGCTGCCTCGTGCGGGAGTACGGCAGCCTGGAGAGGAGCCCCGAGAAGATCTCAG
CAACTGTGGTGGAGATTGCTGGCTACTCCATGTCTGAGGATGTTCGACAGCGTCACAGATATCTCTCTCACTTGC
CACTCACCTGTGAGTTCAGCATCTGTGAACTGGCTTTGCAACCTCCTGTGGTCTCTAAGGAAACCCTAGAGATGT
TCTCAGATGACATTGAGAAGAGGAAACGTCAGCGCCAAAAGAAGGCTCGGGAGGAACGCCGCCGAGAGCGCAGGA
TTGAGATAGAGGAGAACAAGAAACAGGGCAAGTACCCAGAAGTCCACATTCCCCTCGAGAATCTACAGCAGTTTC
CTGCCTTCAATTCTTATACCTGCTCCTCTGATTCTGCTTTGGGTCCCACCAGCACCGAGGGCCATGGGGCCCTCT
CCATTTCTCCTCTCAGCAGAAGTCCAGGTTCCCATGCAGACTTTCTGCTGACCCCTCTGTCACCCACTGCCAGTC
AGGGCAGTCCCTCATTCTGCGTTGGGAGTCTGGAAGAAGACTCTCCCTTCCCTTCCTTTGCCCAGATGCTGAGGG
TTGGAAAAGCAAAAGCAGATGTGTGGCCCAAAACTGCTCCAAAGAAAGATGAGAACAGCTTAGTTCCTCCTGCCC
CTGTGGACAGCGACGGGGAGAGTGATAATTCAGACCGTGTTCCTGTGCCCAGTTTTCAAAATTCCTTCAGCCAAG
CTATTGAAGCAGCCTTCATGAAACTGGACACACCAGCTACTTCAGATCCCCTCTCTGAAGAGAAAGGAGGAAAGA
AAAGAAAAAAACAGAAACAGAAGCTCCTGTTCAGCACCTCAGTCGTCCACACCAAGTGACACTACTGGCCCAGGC
TACCTTCTCCATCTGGTTTTTGTTTTTGTTTTTTTTCCCCCATGCTTTTGTTTGGCTGCTGTAATTTTTAAGTA
TTTGAGTTTGAACAGATTAGCTCTGGGGGGGAGGGGGTTTCCACAATGTGAGGGGGAACCAAGAAAATTTTAAATA
CAGTGTATTTTCCAGCTTCCTGTCTTTACACCAAAATAAAGTATTGACACAAGAG
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FIGURE 3824

MMDGKNSSGSKRYNRKRELSYPKNESFNNQSRRSSSQKSKTFNKMPPQRGGGSSKLFSSSFNGGRRDEVAEAQRA
EFSPAQFSGPKKINLNHLLNFTFEPRGQTGHFEGSGHGSWGKRNKWGHKPFNKELFLQANCQFVVSEDQDYTAHF
ADPDTLVNWDFVEQVRICSHEVPSCPICLYPPTAAKITRCGHIFCWACILHYLSLSEKTWSKCPICYSSVHKKDL
KSVVATESHQYVVGDTITMQLMKREKGVLVALPKSKWMNVDHPIHLGDEQHSQYSKLLLASKEQVLHRVVLEEKV
ALEQQLAEEKHTPESCFIEAAIQELKTREEALSGLAGSRREVTGVVAALEQLVLMAPLAKESVFQPRKGVLEYLS
AFDEETTEVCSLDTPSRPLALPLVEEEEAVSEPEPEGLPEACDDLELADDNLKEGTICTESSQQEPITKSGFTRL
SSSPCYYFYQAEDGQHMFLHPVNVRCLVREYGSLERSPEKISATVVEIAGYSMSEDVRQRHRYLSHLPLTCEFSI
CELALQPPVVSKETLEMFSDDIEKRKRQRQKKAREERRRERRIEIEENKKQGKYPEVHIPLENLQQFPAFNSYTC
SSDSALGPTSTEGHGALSISPLSRSPGSHADFLLTPLSPTASQGSPSFCVGSLEEDSPFPSFAQMLRVGKAKADV
WPKTAPKKDENSLVPPAPVDSDGESDNSDRVPVPSFQNSFSQAIEAAFMKLDTPATSDPLSEEKGGKKRKKQKQK
LLFSTSVVHTK

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FIGURE 3825

GCCATGAACAGTGTGGGGGAGGCATGCACGGACATGAAGCGCGAGTACGACCAGTGCTTCAATCGCTGGTTCGCC
GAGAAATTTCTCAAGGGGGACAGCTCCGGGGACCCGTGCACCGACCTCTTCAAGCGCTACCAGCAGTGTGTTCAG
AAAGCAATAAAGGAGAAAGAGATTCCTATTGAAGGACTGGAGTTCATGGGCCATGGCAAAGAAAAGCCTGAAAAT
TCTTCTTGACCTTGACAGTCACCTTGAAGGATTTCGCAAGTCCAGAAATTGAGGACTCTGGATTTTTGTCAACTA
ACTCTGTGAACATAGCCATCAGATTTGATGAGGAACTTAGGAGAGAGGAGTTTTATTTCCTCCTTCGATGTTTTC
CTCTCAGTTGTAAAAGATGAACTCTTTGAGATGATTTCTCACCTGCTGTGGTATCTTGCAGGAACTGTGTGCTAA
AATTGAACAATTTTTTTGAGATTATGGTTGCAATACTTGGCGTGGAATCAGCTTTACATAAATATACCTTGTATG
CAAACGATGATAAACTAGTCAGGATGAGCAGAGCTGCCTGACCTCTTGATTTCTGCTGCAAAAGACATATACACT
GTACTGGGGTCACTATTTATGAAAGCAATTGGTTAGGACCTCTTTTTTTCCTCTCAGGGAACTAATGCTCTGAAA
AGGGATCTGGGCACAACAGTTTCAGTGAGTGCTTTTGAGCACACTTTTATTTTTATATAGTAACTAATGGTTAAG
ATTGATGGTGGCCTGGATTAGCAAAGAGGAAGACAGCTTTTAACACAGTTCCCTGCCTTCACAAGAGGTGTCAGA
TTAAGATGTGAAAGCTGCAAGAATGTTGCAGTGAACACCATTTCAGAGCTCTCAGTGTGCAGTTCAGGAATTAAG
ATACTTGGAATAGCTGTGGAGGAAGAACCTAAATTGCAAAGATCTGCTATTGCCAGCTCTCAACCCAAGTCAGTG
AATTGTCAACCTGCATATCCTAAAAATGTCAAAATGCTGCATCTGGTTAAATGTCGGGGTAGGGGGGAAGCTGAA
GGTGCTCGCTTCATTTGCCTTGTTTACTCATCCTGCCCTGTAATGTCTGTAATCCTGAAGATGGAATAAATTGTA
ACATTTAGTTTCTATCATT

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FIGURE 3826A

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GGCATGGATGGTAGAGAGGGGAGCTGGCACTTGAACTCAGGTCTGGCTCGACCTCAGAATGAGTGATCTTGTGTC
TCTGTGCCCCAGGACTGCATCCTCTCACCAATACTTCACCAGCCTAGGGATCTGTGCTCCCAAGAGCCTGTTGAC
ATTGTAAACCTGAATCCAATCCATAAACCAAAAGCCCAGGCTTAGAATCACATTGTGGTGGAGCGGGTGTTTGGT
GGAGTCCCTGATTCAAAATGTTTGACAAGGAAGCCTGACCATTGTCTTCTGTTGGGTGTTTGGAGTCCAAGAGA
CCTGAGATCAGAGTCCAGCATTGTCACTTCATCCAGCCTTGGCAGTGTGGGATGTGACTCTGCCTCTGAACCGCA
GTTATACCATCTGTGCTGGTGGCGTTGTGAGGATGGCAGGTAACAAAGACGCCCTGCTGGCGGACTTGGAGTCTA
CCACCTCCCACATCTCCAAACGGCCTGTGTTCTTGTCGGAGGAGACCCCCTACTCATACCCAACTGGAAACCACA
CATACCAGGAGATTGCCGTGCCACCCCCCGTCCCCCCACCCCCGTCCAGCGAGGCCCTCAATGGCACAATCCTTG
ACCCCTTAGACCAGTGGCAGCCCAGCAGCTCCCGATTCATCCACCAGCAGCCTCAGTCCTCATCACCTGTGTACG
GCTCCAGTGCCAAAACTTCCAGTGTCTCCAACCCTCAGGACAGTGTTGGCTCTCCGTGCTCCCGAGTGGGTGAGG
AGGAGCACGTCTACAGCTTCCCCAACAAGCAGAAATCAGCTGAGCCTTCACCCACCGTAATGAGCACGTCCCTGG
GCAGCAACCTTTCTGAACTCGACCGCCTGCTGCTGGAACTGAACGCTGTACAGCATAACCCGCCAGGCTTCCCTG
CAGATGAGGCCAACTCAAGCCCCCCGCTTCCTGGGGCCCTGAGCCCCCTCTATGGTGTCCCAGAGACTAACAGCC
CCTTGGGAGGCAAAGCTGGGCCCCTGACGAAAGAGAAGCCTAAGCGGAATGGGGGCCGGGGCCTGGAGGACGTGC
GGCCCAGTGTGGAGAGTCTCTTGGATGAACTGGAGAGCTCCGTGCCCAGCCCCGTCCCTGCCATCACTGTGAACC
AGGGCGAGATGAGCAGCCCGCAGCGCGTCACCTCCACCCAACAGCAGACACGCATCTCGGCCTCCTCTGCCACCA
GGGAGCTGGACGAGCTGATGGCTTCGCTGTCGGATTTCAAGGGCTCCTGGCCCCTGGAGGAGGTTGTACTTCTTG
TCTCCATCAGCTCATCTGTCCAGGAGGGAGAAAAGTACCCCCATCCCTGTGCTGCCAGACACCGTACCCCGAGCC
TCAGGAGTCCTGACCAGCCCCCTCCGTGTCCACAGTTCATGGCCCAGGGGAAGACAGGGAGCAGCTCACCCCCTG
GGGGGCCCCCGAAGCCCGGGAGCCAGCTGGACAGCATGCTGGGGAGCCTGCAGTCTGACCTGAACAAGCTGGGGG
TCGCCACAGTCGCCAAAGGAGTCTGCGGGGCCTGCAAGAAGCCCATCGCCGGGCAGGTTGTGACCGCCATGGGGA
AGACGTGGCACCCCGAGCACTTCGTCTGCACCCACTGCCAGGAGGAGATCGGATCCCGGAACTTCTTCGAGCGGG
ATGGACAGCCCTACTGTGAAAAGGACTACCACAACCTCTTCTCCCCGCGCTGCTACTACTGCAACGGCCCCATCC
TGGATAAAGTGGTGACAGCCCTTGACCGGACGTGGCACCCTGAACACTTCTTCTGTGCACAGTGTGGAGCCTTCT
TTGGTCCCGAAGGGTTCCACGAGAAGGACGGCAAGGCCTACTGTCGCAAGGACTACTTCGACATGTTCGCACCCA
AGTGTGGCGGCTGCGCCCGGGCCATCCTGGAGAACTATATCTCAGCCCTCAACACGCTGTGGCATCCTGAGTGCT
TTGTGTGCCGGGAATGCTTCACGCCATTCGTGAACGGCAGCTTCTTCGAGCACGACGGGCAGCCCTACTGTGAGG
TGCACTACCACGAGCGGCGCGGCTCGCTGTGTTCTGGCTGCCAGAAGCCCATCACCGGCCGCTGCATCACCGCCA
TGGCCAAGAAGTTCCACCCCGAGCACTTCGTCTGTGCCTTCTGCCTCAAGCAGCTCAACAAGGGCACCTTCAAGG
AGCAGAACGACAAGCCTTACTGTCAGAACTGCTTCCTCAAGCTCTTCTGCTAGGTGCCCTGCCCCTGTCTCTGCC
CCCCTTCCCCAGCCAGCATCCCCAACTGCGACTGTGACCTAGAGACTTCACCCGGGGGTGAAGGGGTAAACCCGA
CTGAAACTGGAACCCTTGTCCTCCGCTGGTGCGGGATGGACAGAGGGCCGTGAGGGGTCCCCCTGCTTGTCTTCA
CCCCTGCCAGAGCCTCTGGGCCCCCTCCTCCCTCCTGTAGCTCTCCCTAGGCTGCCCACTCTCCATCCTCCCCAG
GGGTAGAGGCTGGGGGGCTCCACCCCAGCCCATGTACGTCCCCACGAACTGGCCTGGCCAGCACCCCACACTGGAG
CCATCTCTTCCTCATATTTCAGCAGTGCAGCCGGGGGGCAGGGAAGGGCAGGCAGGGTCTGTTGGGGTCTCTTTT
TATCCTTATTCCTCCCCCGACCTAATTGTCTTTGTTCTGTGATTATTGGGGGACACCCGGCTCCCTCCAGACAAT
GCCAGCATAAATCCATCCATCCAAAGGCAGAGAACCAAAGGGGCCATGGAAGGTTCTCTGTGCTCCTCCTACCCT
TCCAGTGCCCTAGGCCTGGCGACTGCCCCTGCCTTTTAGACCCGCCCTCCCCTTTTATACCTGCTCTTGTTCTAC
TGAGAAAAGCCTCTCCAGCAATAATGTTTTCTAGTCACTTCCTCCGTCTCCGGGACGGCGTGCCTGGACACTGTA
CCGACTTTGATAGATTTCTACACTGAGGTTTGAATTCATATCGCCTGAGTTGCTTTTACTTCTCTATACAAAATG
ATTTTGAAGAGATTTTAAAGACGTTCCCTTTTGTATTCTCTTCCTCATCCACCGCCACTGGGCCTGTCACTGATG
GTGGCTCTGGTGTGAAGTTTGCTTTGTACTGAGGGTTGGGGTGGGGAAGCAATTTGTATTTTATTGTTTCTTAGC
ACAAGCAGGTGAACTGGGAGCAGCTCTGTGACTCCCCCTCTTTCACTTCATAGCTCACCAGGACTGTTTTATAAA
CTGCTGTATTTGGAAACCCCTTCTTTACTTCCCAGGCCAGCAAGCTCTTCACTGAAACTGGTTGAAGGGTGTTGC
ACCCTTTTGGGCCTAGAATTCTGAACTTTATCTGTTCTGTTTCTGTGGGAGGAGAAGGGGAAGTATGTTTTGGGG
GGCTGCTTCCTGTCTGAGTAAGCCCTCAGGAGCCTCTGCTCCCCTGTGAACCCACTGAACCTTCTGAGCCCCCAC
TGCTTCTATGGGGCTCTCTCTTCTGCCTTCTCAGGAAAGCTGGTGTCTGATTTTGGCCATCAGGACTCTGACGTC
TCTTTGGTCTTGTTGATTTCCTCTGGGCATATCCCTTCCCCAGATCTGCTCCTCCCCTTTCACAGGTGGGATCGG
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FIGURE 3826B

CACTCAGGGGGTCTGGAAAGAAGGTCATAAGGGAGCATGATAGGATTTGGGGCAGAGGGACAGGCTCCTCTGGGG
AAACCCCCCAGAGCTCTTTACCAAGGATGAAAGAGGAGCCAGGCCTTGGGCTCCTGATGAGGAGAAAGGGGCCCC
ACCGGGGTCTAATGGTGACAGTCCAAACCACTCCACTGGCCTCCTGGCAGAAGCCGAGTGTGCTGGGGTCTCCGA
AGAGGGTCCCTCCTTTTTGGGGGAAGGTCAGCCCAGCCCCTCCAAAGGTCTGATGTCTCCACTTTCACCCGCAGG
CCTTACCGCTCTGTTTATAGTGACCCACCCTAGATCTTCCCCAAGAGGGACTGGGGTTTCTGGGGTCCATTCTCT
GAGTCAGTGGTTATTTGAAAATTTGATTTTGATTTTATTTTTTCTCTGTAAACTTCCAAGCTGGCTTTTCCCATT
TCAATTCCTGTGATTTATGCCAATAAAGTTTGCCCATG

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FIGURE 3827

CCTTCTCTCGCCAGGCGTCCTCGTGGAAGTGACATCGTCTTTAAACCCTGCGTGGCAATCCCTGACGCACCGCCG
TGATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCAACTACTTCCTTAAGATCATCCAACTATTGGATGATTATC
CGAAATGTTTCATTGTGGGAGCAGACAATGTGGGCTCCAAGCAGATGCAGCAGATCCGCATGTCCCTTCGCGGGA
AGGCTGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGGCCATCCGAGGGCACCTGGAAAACAACCCAGCTC
TGGAGAAACTGCTGCCTCATATCCGGGGGAATGTGGGCTTTGTGTTCACCAAGGAGGACCTCACTGAGATCAGGG
ACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCGTGCTGGTGCCATTGCCCCATGTGAAGTCACTGTGCCAG
CCCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCCAGGCTTTAGGTATCACCACTAAAATCTCCAGGG
GCACCATTGAAATCCTGAGTGATGTGCAGCTGATCAAGACTGGAGACAAAGTGGGAGCCAGCGAAGCCACGCTGC
TGAACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTCATCCAGCAGGTGTTCGACAATGGCAGCATCTACA
ACCCTGAAGTGCTTGATATCACAGAGGAAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTG
TCTGTCTGCAGATTGGCTACCCAACTGTTGCATCAGTACCCCATTCTATCATCAACGGGTACAAACGAGTCCTGG
CCTTGTCTGTGGAGACGGATTACACCTTCCCACTTGCTGAAAAGGTCAAGGCCTTCTTGGCTGATCCATCTGCCT
TTGTGGCTGCTGCCCCTGTGGCTGCTGCCACCACAGCTGCTCCTGCTGCTGCTGCAGCCCCAGCTAAGGTTGAAG
CCAAGGAAGAGTCGGAGGAGTCGGACGAGGATATGGGATTTGGTCTCTTTGACTAATCACCAAAAAGCAACCAAC
TTAGCCAGTTTTATTTGCAAAACAAGGAAATAAAGGCTTACTTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3828

MPREDRATWKSNYFLKIIQLLDDYPKCFIVGADNVGSKQMQQIRMSLRGKAVVLMGKNTMMRKAIRGHLENNPAL
EKLLPHIRGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCEVTVPAQNTGLGPEKTSFFQALGITTKISRG
TIEILSDVQLIKTGDKVGASEATLLNMLNISPFSFGLVIQQVFDNGSIYNPEVLDITEETLHSRFLEGVRNVASV
CLQIGYPTVASVPHSIINGYKRVLALSVETDYTFPLAEKVKAFLADPSAFVAAAPVAAATTAAPAAAAAPAKVEA
KEESEESDEDMGFGLFD

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FIGURE 3829

AGGCCCGGGACCGCGGGATGGGTGTCGGCGTGACCAGGCCTGAGCTCCCTGTCTCTCCTCAGTGACATCGTCTTT
AAACCCTGCGTGGCAATCCCTGACGCACCGCCGTGATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCAACTACT
TCCTTAAGATCATCCAACTATTGGATGATTATCCGAAATGTTTCATTGTGGGAGCAGACAATGTGGGCTCCAAGC
AGATGCAGCAGATCCGCATGTCCCTTCGCGGGAAGGCTGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGG
CCATCCGAGGGCACCTGGAAAACAACCCAGCTCTGGAGAAACTGCTGCCTCATATCCGGGGGAATGTGGGCTTTG
TGTTCACCAAGGAGGACCTCACTGAGATCAGGGACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCGTGCTG
GTGCCATTGCCCCATGTGAAGTCACTGTGCCAGCCCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCC
AGGCTTTAGGTATCACCACTAAAATCTCCAGGGGCACCATTGAAATCCTGAGTGATGTGCAGCTGATCAAGACTG
GAGACAAAGTGGGAGCCAGCGAAGCCACGCTGCTGAACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTCA
TCCAGCAGGTGTTCGACAATGGCAGCATCTACAACCCTGAAGTGCTTGATATCACAGAGGAAACTCTGCATTCTC
GCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGTCTGTCTGCAGATTGGCTACCCAACTGTTGCATCAGTACCCC
ATTCTATCATCAACGGGTACAAACGAGTCCTGGCCTTGTCTGTGGAGACGGATTACACCTTCCCACTTGCTGAAA
AGGTCAAGGCCTTCTTGGCTGATCCATCTGCCTTTGTGGCTGCTGCCCCTGTGGCTGCTGCCACCACAGCTGCTC
CTGCTGCTGCTGCAGCCCCAGCTAAGGTTGAAGCCAAGGAAGAGTCGGAGGAGTCGGACGAGGATATGGGATTTG
GTCTCTTTGACTAATCACCAAAAAGCAACCAACTTAGCCAGTTTTATTTGCAAAACAAGGAAATAAAGGCTTACT
TCTTTAAAAAAAAAAAAAAAAAAA

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FIGURE 3830

MPREDRATWKSNYFLKIIQLLDDYPKCFIVGADNVGSKQMQQIRMSLRGKAVVLMGKNTMMRKAIRGHLENNPAL
EKLLPHIRGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCEVTVPAQNTGLGPEKTSFFQALGITTKISRG
TIEILSDVQLIKTGDKVGASEATLLNMLNISPFSFGLVIQQVFDNGSIYNPEVLDITEETLHSRFLEGVRNVASV
CLQIGYPTVASVPHSIINGYKRVLALSVETDYTFPLAEKVKAFLADPSAFVAAAPVAAATTAAPAAAAAPAKVEA
KEESEESDEDMGFGLFD

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FIGURE 3831

GGCACGAGGAAGCGGTTGGGAAAGTGTCGGTTTATCTTCGCGCCCCTTGCGTTCTTGCCGCGGCTTGCCTGGGCA
GGTAAAGCGCGATTGCGAGAGCTCGGCAACCCTGCCGACTCAGCCGGAACCGGCTCCCGGCCCGAGGGGCGTGGT
GTCCTGGTGCTCCGACTCCTTCCGCAGGCTCCTTGGGACCCGCGGTTCCGGGAGTCCCTTGCTCAGGGTCCCTTT
CCTGCAGTGAGGCGCCGTCCGCCTTCCCTGTGTCCCCGCAGACCCCCATC<u>ATG</u>GCAATACCAGCAGTGAGCGCG
CCGCGCTGGAGCGGCATGGTGGCCATAAGACGCCCCGGAGGGACAGCTCGGGGGGCACCAAGGACGGGGACAGGC
CCAAGATCCTGATGGACAGCCCCGAAGACGCCGACCTCTTCCACTCCGAGGAAATCAAGGCACCAGAGAAGGAGG
AATTCCTGGCCTGGCAGCATGATCTGGAAGTGAATGATAAAGCTCCCGCCCAGGCTCGGCCAACGGTGTTTCGAT
GGACGGGGGGCGGAAAGGAAGTTTACTTATCTGGGTCCTTCAACAACTGGAGTAAACTTCCCCTCACCAGAAGCC
ACAATAACTTTGTAGCCATCCTGGATCTGCCGGAAGGAGAGCATCAGTACAAGTTCTTTGTGGATGGTCAGTGGA
CGCACGACCCTTCCGAGCCCATAGTAACCAGCCAGCTTGGCACAGTTAACAACATCATTCAAGTGAAGAAAACTG
ACTTTGAAGTATTTGATGCTTTAATGGTGGATTCCCAAAAGTGCTCCGATGTGTCTGAGCTGTCCAGTTCTCCCC
CAGGACCCTACCATCAGGAGCCCTACGTCTGCAAACCCGAAGAGCGCTTTCGGGCACCCCTATTCTCCCCCCAC
ATCTCCTCCAGGTCATCCTGAACAAGGACACGGGGATTTCCTGTGATCCAGCTTTGCTTCCTGAGCCCAATCACG
TCATGCTGAACCACCTATACGCGCTGTCTATCAAGGATGGAGTGATGGTGCTCAGCGCAACCCACCGGTACAAGA
AGAAGTACGTCACCACCTTGTTATACAAGCCCATA<u>TGA</u>AGAGCTGGGGGCGGATGGTGGCCCAGGAGACAGCACA
CCACCAGGCTCCACACGTGCATGCTTTCCCCAAGAGGGAATGGACTGTACATTGCTCATTTCACACTCTTCAGAA
GACATTTCATACCTGCCCTGGTCCTGCTTGAAGGTTTGTCCAGGCAGAGCAGCTCCTGCAGCGCCTCGGTCTGTG
ACAGTCCTCCTAGCACCCCCATGGCTTTGAGCCTCGGGGACTCATCAAGTCCAAGAAAAGAGGGAGGGGTGGCAG
AGGATCTGCAGCCCTGGCCCCGCGGTGCATGAGGCTGGGTGCAGTTCTAAACCTACATTCTCGATTTTTCTTAAG
CCAAAAATGAATGCTAACTCCTTTGCCAGTAAAATTCTGGGAAACAGGGACTGAGGCCACACATCATTTCCAGTC
ATCTGTGTGTTTTTAAGGCCAGCCACTTGTCCCTGTTGAGGCCTGGCTATGGAACTAAATACAGTGTTGGTCTTG
CCTGTCCTTCAAAATCAACAACAGATTGTCTCTCGGCTCCAGGGAGGTGTCATTTCTATAGAAATTAGAAGCTTT
CTGATTTCTAGATGAGGTTTTACAATTGTTTCTTACAGTCATGTGCACTAAGTACTCTTTTTGTAAGCAGAGGTG
GCTGGCTCTGCAGCCTTAAGGCCATTTTTTAAGTCACCACGTCTAGAAGTCACATGAACTCTGCTCAGCAATAAT
CTGTTCTCAGAACAGACTTTTCAACCTGCTGCCGGATTTCTCCATTCAGCTGGATGATCCTCAGGACTGACCAGT
TAGCTGGCAGGTTGTCCAGCTTTTTATTCCAGTCATAATAGGTGACAGTGTTAACCGTGAAAACTTGAGAGGCAC
TCTGCCCTCTTCCCTATAAAATCACACAGCGTGATTTTACAAGGTCCCGTGGCACCTTGCTCAGGACCTCTGCCC
CTAGTTAGCAAGACTGCAGCAGTTGCTGTTGCTTATTCTGAAAGGAATGTAGAACTTGACAGCAGCCTTCTGAGT
CTGGGTCAGGAAGATGTCCTTTGGACCAAAGCAGACTTCTGTATACGCAGCTCAGTTTCCCGGGAGTCGCCACAG
ATGTACCCACTAGCCCAGGTTGCTGTGAGTCAGCGGAAGCTCCCGTTATGCCCTTTGCTCCTGGTGGGAGAGGGA
GGAGTGAGCTCCCTGGGTTCCAGTATTTACTTGGTATACCTGAGTTTGGGGGTACCCTTTTTTGTGACTTTTCAA
AACAGTGAATTACTGTCACCTTGATGGACAAGTTTCAATAAAACTTTGTAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3832

MGNTSSERAALERHGGHKTPRRDSSGGTKDGDRPKILMDSPEDADLFHSEEIKAPEKEEFLAWQHDLEVNDKAPA
QARPTVFRWTGGGKEVYLSGSFNNWSKLPLTRSHNNFVAILDLPEGEHQYKFFVDGQWTHDPSEPIVTSQLGTVN
NIIQVKKTDFEVFDALMVDSQKCSDVSELSSSPPGPYHQEPYVCKPEERFRAPPILPPHLLQVILNKDTGISCDP
ALLPEPNHVMLNHLYALSIKDGVMVLSATHRYKKKYVTTLLYKPI

FIGURE 3833

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GTTCCGGGAGTCCCTTGCTCAGGGTCCCTTTCCTGCAGTGAGGCGCCGTCCGCCTTCCCTGTGTCCCCGCAGACC
CCCATCATGGGCAATACCAGCAGTGAGCGCGCCGCGCTGGAGCGGCATGGTGGCCATAAGACGCCCCGGAGGGAC
AGCTCGGGGGGCACCAAGGACGGGGACAGGCCCAAGATCCTGATGGACAGCCCCGAAGACGCCGACCTCTTCCAC
TCCGAGGAAATCAAGGCACCAGAGAAGGAGGAATTCCTGGCCTGGCAGCATGATCTGGAAGTGAATGATAAAGCT
CCCGCCCAGGCTCGGCCAACGGTGTTTCGATGGACGGGGGGCGGAAAGGAAGTTTACTTATCTGGGTCCTTCAAC
AACTGGAGTAAACTTCCCCTCACCAGAAGCCACAATAACTTTGTAGCCATCCTGGATCTGCCGGAAGGAGAGCAT
CAGTACAAGTTCTTTGTGGATGGTCAGTGGACGCACGACCCTTCCGAGCCCATAGTAACCAGCCAGCTTGGCACA
GTTAACAACATCATTCAAGTGAAGAAAACTGACTTTGAAGTATTTGATGCTTTAATGGTGGATTCCCAAAAGTGC
TCCGATGTGTCTGAGCTGTCCAGTTCTCCCCCAGGACCCTACCATCAGGAGCCCTACGTCTGCAAACCCGAAGAG
CGCTTTCGGGCACCCCCTATTCTCCCCCCACATCTCCTCCAGGTCATCCTGAACAAGGACACGGGGATTTCCTGT
GATCCAGCTTTGCTTCCTGAGCCCAATCACGTCATGCTGAACCACCTATACGCGCTGTCTATCAAGGATGGAGTG
ATGGTGCTCAGCGCAACCCACCGGTACAAGAAGAAGTACGTCACCACCTTGTTATACAAGCCCATATGAAGAGCT
GGGGGCGGATGGTGGCC
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FIGURE 3834

ATGGCCAGCGTCCACGAGAGCCTCTACTTCAATCCCATGATGACCAATGGGGTTGTGCACGCCAATGTGTTCGGC
ATCAAGGACTGGGTGACGCCGTACAAGATCGCGGTGCTGGTGCTGCTGAACGAGATGAGCCGCACAGGCGAGGGC
GCCGTCAGCCTCATGGAGCGGCGGAGGCTCAACCAGCTGCTCCTGCCCCTGCTGCAGGGCCCAGATATTACACTG
TCAAAACTTTACAAGTTAATTGAAGAGTCTTGTCCACAGCTGGCAAATTCAGTGCAGATCAGAATCAAACTGATG
GCTGAAGGCGAGTTGAAGGATATGGAACAGTTTTTTGATGACCTTTCAGATTCTTTCTCTGGAACTGAACCAGAG
GTTCACAAAACAAGTGTAGTAGGTTTGTTTCTGCGTCACATGATCTTGGCCTACAGTAAGCTTTCTTTCAGCCAA
GTGTTTAAACTGTACACTGCCCTTCAGCAGTACTTCCAGAATGGTGAGAAAAAGACAGTGGAGGATGCTGATATG
GAACTGACCAGTAGAGATGAGGGTGAAAGAAAAATGGAAAAAGAAGAACTTGATGTATCTGTAAGAGAAGAGGAG
GTATCTTGCAGTGGGCCTCTGTCCCAAAAACAAGCAGAATTTTTTCTTTCTCAACAGGCTTCTTTGCTAAAGAAT
GATGAGACTAAGGCCCTCACTCCAGCTTCCTTGCAGAAGGAATTAAACAATTTGTTGAAATTTAATCCTGATTTT
GCTGAAGCGCATTATCTCAGCTACTTAAACAACCTCCGTGTCCAAGATGTTTTCAGTTCAACACACAGTCTCCTC
CATTATTTTGATCGTCTGATTCTTACCGGAGCCGAAAGCAAAGTAATGGGGAAGAGGGCTATGGCCGGAGCTTG
AGATACGCCGCTCTGAATCTTGCCGCCCTGCACTGCCGCTTCGGTCACTATCAACAGGCAGAGCTCGCCCTGCAG
GAGGCAATTAGGATTGCCCAGGAGTCCAACGATCACGTGTGTCTCCAGCACTGTTTGAGCTGGCTTTATGTGCTG
GGGCAGAAGAGATCCGATAGCTATGTTCTGCTGGAGCATTCTGTGAAGAAGGCAGTACATTTTGGGTTACCGTAC
CTCGCCTCCCTGGGAATACAGTCCCTTGTTCAACAGAGAGCTTTTGCTGGGAAGACGGCAAACAAGCTGATGGAT
GCCCTAAAGGACTCCGACCTCCTGCACTGGAAACACAGCCTGTCAGAGCTCATCGATATCAGCATCGCACAGAAA
ACGGCCATCTGGAGGCTGTATGGCCGCAGCACCATGGCACTGCAACAGGCCCAGATGTTGCTGAGCATGAACAGC
CTGGAGGCGGTGAATGCGGGCGTGCAGCAGAACAACACAGAGTCCTTTGCTGTCGCACTCTGCCACCTCGCAGAG
CTACACGCGGAGCAGGGCTGTTTTGCTGCAGCTTCTGAAGTGTTAAAGCACTTGAAGGAACGATTTCCGCCTAAT
AGTCAGCACGCCCAGTTATGGATGCTATGTGATCAAAAAATACAGTTTGACAGAGCAATGAATGATGGCAAATAT
CATTTGGCTGATTCACTTGTTACAGGAATCACAGCTCTCAATAGCATAGAGGGTGTTTATAGGTAAG

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FIGURE 3835

GCCTGGGACTGTGTCTGTCGCCCATGGCCGCCGCGCTGCTCGCCCGGGCCTCGGGCCCTGCCCGCAGAGCTCTCT
GTCCTAGGGCCTGGCGGCAGTTACACACCATCTACCAGTCTGTGGAACTGCCCGAGACACACCAGATGTTGCTCC
AGACATGCCGGGACTTTGCCGAGAAGGAGTTGTTTCCCATTGCAGCCCAGGTGGATAAGGAACATCTCTTCCCAG
CGGCTCAGGTGAAGAAGATGGGCGGGCTTGGGCTTCTGGCCATGGACGTGCCCGAGGAGCTTGGCGGTGCTGGCC
TCGATTACCTGGCCTACGCCATCGCCATGGAGGAGATCAGCCGCGGCTGCGCCTCCACCGGAGTCATCATGAGTG
TCAACAACTCTCTCTACCTGGGGCCCATCTTGAAGTTTGGCTCCAAGGAGCAGAAGCAGGCGTGGGTCACGCCTT
TCACCAGTGGTGACAAAATTGGCTGCTTTGCCCTCAGCGAACCAGGGAACGGCAGTGATGCAGGAGCTGCGTCCA
CCACCGCCCGGGCCGAGGGCGACTCATGGGTTCTGAATGGAACCAAAGCCTGGATCACCAATGCCTGGGAGGCTT
CGGCTGCCGTGGTCTTTGCCAGCACGGACAGAGCCCTGCAAAACAAGGGCATCAGTGCCTTCCTGGTCCCCATGC
CAACGCCTGGGCTCACGTTGGGGAAGAAAGAAGACAAGCTGGGCATCCGGGGCTCATCCACGGCCAACCTCATCT
TTGAGGACTGTCGCATCCCCAAGGACAGCATCCTGGGGGAGCCAGGGATGGGCTTCAAGATAGCCATGCAAACCC
TGGACATGGGCCGCATCGGCATCGCCTCCCAGGCCCTGGGCATTGCCCAGACCGCCCTCGATTGTGCTGTGAACT
ACGCTGAGAATCGCATGGCCTTCGGGGCGCCCCTCACCAAGCTCCAGGTCATCCAGTTCAAGTTGGCAGACATGG
CCCTGGCCCTGGAGAGTGCCCGGCTGCTGACCTGGCGTGCTGCCATGCTGAAGGATAACAAGAAGCCTTTCATCA
AGGAGGCAGCCATGGCCAAGCTGGCCGCCTCGGAGGCCGCGACCGCCATCAGCCACCAGGCCATCCAGATCCTGG
GCGGCATGGGCTACGTGACAGAGATGCCGGCAGAGCGGCACTACCGCGACGCCCGCATCACTGAGATCTACGAGG
GCACCAGCGAAATCCAGCGGCTGGTGATCGCCGGGCATCTGCTCAGGAGCTACCGGAGCTGAGCCCGCGGCGGAC
TGCCCCAGGACTGCGGGAAGGCGCGGGAGCCAGGGGCCTCCACCCCAACCCCGGCTCAGAGACTGGGCGGCCCGG
CGGGGGCTCCCTGGGGACCCCAGATGGGCTCAGTGCTGCCACCCAGATCAGATCACATGGGAATGAGGCCCTCCG
ACCATTGGCAGCTCCGCCTCTGGGCCTTTCCGCCTCCTCACCACTGTGCCTCAAGTTCCTCATCTAAGTGGCCCT
GGCCTCCTGGAGGCGGGGTTGTGGGGGGGCTGAGCGACACTCAGGGACACCTCAGTTGTCCTCCCGCGGGCCCTG
GTGCCCTGGCATGAAGGCCCAGTGCGACAGGCCCTTGGTGGGGTCTGTCTTTTCCTTGAGGTCAGAGGTCAGGAG
CAGGGCTGGGGTCAGGATGACGAGGCCTGGGGTCCTGGTGTTGGGCAGGTGGTGGGGCTGGGCCATGGAGCTGGC
CCAGAGGCCCCTCAGCCCTTTGTAAAGTCTGATGAAAGCAGGGGTGGTGATTCATGCTGTGTGACTGACTGTGGG
TAATAAACACACCTGTCCCCC

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FIGURE 3836

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GTTCCTGAGGTGGGAGGCGGTACCCGTGGCTGAGAAGAAGGAGGCCTGAGAGCGACATGTCCCCGGCGGCTCAGG
CGGAGCGGCCCGTGGCGCTGTTTTTCTGAGTCCGGGGTGGCCTGGCAGCCGGCCGAGGACGAGGGTCGGCGGGGG
CTGCCCCCGTGGTGGTGGCCGCCATGCTGGGAGCCTGGGCGGTTGAGGGAACCGCTGTGGCGCTCCTGCGACTGC
TGCTGCTGCTGCCGCCGGCGATCCGGGGACCCGGGCTCGGCGTGGCCGGCGTGGCCGGCGCGGCGGGGGCCG
GGCTGCCCGAGAGCGTCATTTGGGCGGTCAACGCGGGTGGAGAGGCGCATGTGGACGTGCACGGGATCCACTTCC
GCAAGGACCCTTTGGAAGGCCGGGTGGGCCGAGCCTCAGACTATGGCATGAAACTGCCAATCCTGCGTTCCAACC
CTGAGGACCAGATCCTGTATCAAACTGAGCGGTACAATGAGGAGACCTTTGGCTACGAAGTGCCCATCAAAGAGG
AGGGGGACTACGTGCTGGTCTTGAAATTTGCAGAGGTCTACTTTGCACAGTCCCAGCAAAAGGTATTTGATGTAC
GATTGAATGGCCACGTCGTGGTGAAGGACTTGGATATCTTTGATCGTGTTGGGCATAGCACAGCTCACGATGAAA
TTATACCTATGAGCATCAGAAAGGGGAAGCTGAGTGTCCAGGGGGAGGTGTCCACCTTCACAGGGAAACTCTACA
TTGAGTTTGTCAAGGGGTACTATGACAATCCCAAGGTCTGTGCACTCTACATCATGGCTGGGACAGTGGATGATG
TACCAAATCTTCATTCCAACCCTCTTCTGCCTCTGCCGGTTGTGAGAACAAATGACTATCCTGAACAGGGTGGAG
GGGTGTGGGAAAGAAACCAGCCATATTGGTTTTGGTTTCTGTATTTTTCACAATGATTAATGAACAAAAACAAAG
AGAAAAAAACACACATCAATTAAAGGAGACAAAAAGAG
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FIGURE 3837

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GGCACGAGGCATGGGCGGAGCCGTAGTTACGGTCGACTGGGGCGTCGTCCCTAGCCCGGGAGCCGGGTCTCTGGA
GTCGCGGCCCGGGGTTCACGATGTCCGACGAGGAAGCGAGGCAGAGCGGAGGCTCCTCGCAGGCCGGCGTCGTGA
CTGTCAGCGACGTCCAGGAGCTGATGCGGCGCAAGGAGGAGATAGAAGCGCAGATCAAGGCCAACTATGACGTGC
TGGAAAGCCAAAAAGGCATTGGGATGAACGAGCCGCTGGTGGACTGTGAGGGCTACCCCCGGTCAGACGTGGACC
TGTACCAAGTCCGCACCGCCAGGCACAACATCATATGCCTGCAGAATGATCACAAGGCAGTGATGAAGCAGGTGG
AGGAGGCCCTGCACCAGCTGCACGCTCGCGACAAGGAGAAGCAGGCCCGGGACATGGCTGAGGCCCACAAAGAGG
CCATGAGCCGCAAACTGGGTCAGAGTGAGAGCCAGGGCCCTCCACGGGCCTTCGCCAAAGTGAACAGCATCAGCC
CCGGCTCCCCAGCCAGCATCGCGGGTCTGCAAGTGGATGATGAGATTGTGGAGTTCGGCTCTGTGAACACCCAGA
ACTTCCAGTCACTGCATAACATTGGCAGTGTGGTGCAGCACAGTGAGGGGAAGCCCCTGAATGTGACAGTGATCC
GCAGGGGGGAAAAACACCAGCTTAGACTTGTTCCAACACGCTGGGCAGGAAAAGGACTGCTGGGCTGCAACATTA
TTCCTCTGCAAAGATGATTGTCCCTGGGGAACAGTAACAGGAAAGCATCTTCCCTTGCCCTGGACTTGGGTCTAG
GGATTTCCAACTTGTCTTCTCTCCCTGAAGCATAAGGATCTGGAAGAGGCTTGTAACCTGAACTTCTGTGTGGTG
GCAGTACTGTGGCCCACCAGTGTAATCTCCCTGGATTAAGGCATTCTTAAAAACTTAGGCTTGGCCTCTTTCACA
AATTAGGCCACGGCCCTAAATAGGAATTCCCTGGATTGTGGGCAAGTGGGCGGAAGTTATTCTGGCAGGTACTGG
TGTGATTATTATTATTTTTAATAAAGAGTTTTACAGTGCTGATATGACCCTGTTGTCACCCCAGCTGAATTT
CTTATGACCCTCCCAAACCAAAGCTCAGATGGGGTCAGAAGAGCTTCATAGAAAGTTGGGCAAAACAGGCTAGCA
ATTGCAAAGTCAGGCTTTGACCAACATATTTCTTTGCACTGAGGCCTTGCTGCTGTGGATACGGAAATGGTTAAG
TACTGTGCTTCCTCAGCAGCTGGGCTGTCAGGGCCATAGTAGCTCCCTTTGGAGAACAGGGAAAGCCTGGAGGCT
TCCCAGGTGGCCCAGCGTGGTGTCCTGTCAGCTTCCTCTTTAGGAACCCACCAGAGGGCAGCAAGCTCCTTTCAC
TTCGCTAGTAAGAACCCCTCCGTTTTTGTGTGTTTTTGTTTTTGTTTTCTGGAGACAAGGTCTTGCTTTGTCACC
CAGGCTGGAGTGCAGTGTCGTGATCAAGGTTCACTGAAGCCTTGACGCTGTGGGCACTGCCTCAGCCGCCCAAGT
ATCTGGGACCACAGGCGTGCACCACCATGCATAGCTAATTTATTTTTTGTAGAGACAGGGTCTCCCTGTGTTGAC
CAGGTTGGTCTCGAACTCCTGGGCTCAAGCAGTCCTCCTGCCTTGGCCTCCTAAAGTGCTGGGATCACAGGCGTG
AGCCACTGCGCCCAGCCCACTGCTAGTTTGACTTTTTATAATTGAACCTCCTGGCTATGCCCTGAGATCAGCGCT
ATTTTGTAAACCGCTGAGGTATGGATAGGAACGAGTAGATCAGACCTCTTGAAAATGCTTATTCTTCCTCCCTTT
TATTTTTTGTCTCTTTTAAGATGGTAAAATGGTTCTCAGGGATTCCTGCCAATACTTTGAATTATTTTTTCCTCT
CCATGGTATCAGTGTTCATTTCCCCAGTTCTTGCACACCGCTTTCTGTTTTGGCAGTTCTGCCAGGCAAGCCCTG
TGTTCCTTGGGACTGGTTTTGCTGTGGTTGGATACAGATACCAGCTTGCCTTGATGGGATTGGTATTGCTGTGTG
CTTCCAGCCACAGGTTCTCACACTCAATTCCAAAGCCTTCCTATTGGGCGAATTCCCTCAAACTCTATTTGACCT
GACAGCCATACGTATTCCCCTCTGGTAGCCACAGACATGCTGTGTTTACCAATGTTTGCTGTTTAAATTGCATGT
TCTAATTCCACGTATTTTCCAGTCTCTTTTATAAAGTCTCAGACTATAATAAACACAGCTTGCCCAGTTAAAAAA
AAAAAAAAAAAAA
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FIGURE 3838

MSDEEARQSGGSSQAGVVTVSDVQELMRRKEEIEAQIKANYDVLESQKGIGMNEPLVDCEGYPRSDVDLYQVRTA
RHNIICLQNDHKAVMKQVEEALHQLHARDKEKQARDMAEAHKEAMSRKLGQSESQGPPRAFAKVNSISPGSPASI
AGLQVDDEIVEFGSVNTQNFQSLHNIGSVVQHSEGKPLNVTVIRRGEKHQLRLVPTRWAGKGLLGCNIIPLQR

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FIGURE 3839

GTGCGTCTGGCGTCCGCGCGCTGCACA**ATG**GCGGCTCTGAAGAGTTGGCTGTCGCGCAGCGTAACTTCATTCTTC
AGGTACAGACAGTGTTTGTGTGTTCCTGTTGTGGCTAACTTTAAGAAGCGGTGTTTCTCAGAATTGATAAGACCA
TGGCACAAAACTGTGACGATTGGCTTTGGAGTAACCCTGTGTGCGGTTCCTATTGCACAGAAATCAGAGCCTCAT
TCCCTTAGTAGTGAAGCATTGATGAGGAGAGCAGTGTCTTTGGTAACAGATAGCACCTCTACCTTTCTCTCTCAG
ACCACATATGCGTTGATTGAAGCTATTACTGAATATACTAAGGCTGTTTATACCTTAACTTCTCTTTACCGACAA
TATACAAGTTTACTTGGGAAAATGAATTCAGAGGAGGAAGATGAAGTGTGGCAGGTGATCATAGGAGCCAGAGCT
GAGATGACTTCAAAACACCAAGAGTACTTGAAGCTGGAAACCACTTGGATGACTGCAGTTGGTCTTTCAGAGATG
GCAGCAGAAGCTGCATATCAAACTGGCGCAGATCAGGCCTCTATAACCGCCAGGAATCACATTCAGCTGGTGAAA
CTGCAGGTGGAAGAGGTGCACCAGCTCTCCCGGAAAGCAGAAACCAAGCTGGCAGAAGCACAGATAGAAGAGCTC
CGTCAGAAAACACAGGAGGAAGGGGAGGAGCGGGCTGAGTCGGAGCAGGAGGCCTACCTGCGTGAGGAT**TGA**GGG
CCTGAGCACACTGCCCTGTCTCCCCACTCAGTGGGGAAAGCAGGGGCAGATGCCACCCTGCCCAGGGTTGGCATG
ACTGTCTGTGCACCGAGAAGAGGCGGCAGATCCTGCCCTGGCCAATCAGGCGAGACGCCTTTGTGAGCTGTGAGT
GCCTCCTGTGGTCTCAGGCTTGCGCTGGACCTGGTTCTTAGCCCTTGGGCACTGCACCCTGTTTAACATTTCACC
CCACTCTGTACAGCTGCTCTTACCCATTTTTTTTACCTCACACCCAAAGCATTTTGCCTACCTGGGTCAGAGAGA
GGAGTCCTTTTTGTCATGCCCTTAAGTTCAGCAACTGTTTAACCTGTTTTCAGTCTTATTTACGTCGTCAAAAAT
GATTTAGTACTTGTTCCCTCTGTTGGGATGCCAGTTGTGGCAGGGGGAGGGGAACCTGTCCAGTTTGTACGATTT
CTTTGTATGTATTTCTGATGTGTTCTCTGATCTGCCCCCACTGTCCTGTGAGGACAGCTGAGGCCAAGGAGTGAA
AAACCTATTACTACTAAGAGAAGGGGTGCAGAGTGTTTACCTGGTGCTCTCAACAGGACTTAACATCAACAGGAC
TTAACACAGGCCTCTTGTTCCTTCCTTTCTTTCCGTTTCTCTATTGTATCCAAAGGAGAAGAGTGTAAGATTTTG
TTTGCATCTGAAAGAGAAAATGCGTCTCTCCTGG

FIGURE 3840

MAALKSWLSRSVTSFFRYRQCLCVPVVANFKKRCFSELIRPWHKTVTIGFGVTLCAVPIAQKSEPHSLSSEALMR
RAVSLVTDSTSTFLSQTTYALIEAITEYTKAVYTLTSLYRQYTSLLGKMNSEEEDEVWQVIIGARAEMTSKHQEY
LKLETTWMTAVGLSEMAAEAAYQTGADQASITARNHIQLVKLQVEEVHQLSRKAETKLAEAQIEELRQKTQEEGE
ERAESEQEAYLRED

FIGURE 3841A

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GTGAGTCGCGCGGACGGAGCCGGACAAAAGCGGGCGGCGGCGGCAGGATGAACAGCATCAAGAACGTGCCGGCGC
GGGTGCTGAGCCGCAGGCCGGGCCACAGCCTGGAGGCCGAGCGCGAGCAGTTCGACAAGACCCAGGCCATCAGCA
TCAGCAAAGCCATCAACACCCAGGAGGCCCCCGTGAAGGAGAAGCACGCCCGGCGCATCATTCTGGGCACACACC
ACGAGAAGGGGGCTTTCACCTTCTGGTCCTACGCCATTGGGCTGCCGCTGCCCAGCAGCTCCATTCTCAGCTGGA
AGTTCTGCCACGTCCTCCACAAGGTCCTTCGAGACGGGCACCCCAATGTGCTGCATGACTGCCAGCGGTACCGCA
GCAACATCCGGGAGATTGGAGACCTGTGGGGACATTTGCATGACCGCTACGGACAGCTGGTGAATGTCTACACCA
AGCTGCTGCTGACCAAGATCTCCTTCCACCTCAAGCATCCCCAGTTTCCCGCGGGCCTGGAGGTGACAGATGAGG
TACTGGAGAAGGCAGCTGGGACCGATGTCAACAACATCTTCCAGCTCACTGTGGAGATGTTTGATTACATGGATT
GTGAGCTGAAGCTTTCTGAATCAGTTTTCCGACAGCTCAACACGGCCATCGCCGTATCCCAGATGTCCTCAGGCC
AGTGCCGCCTGGCCCCCCTCATCCAGGTCATCCAGGACTGCAGCCACCTCTACCACTACACGGTCAAGCTCCTGT
TCAAGCTACACTCTTGTCTCCCTGCGGACACCCTGCAAGGCCACAGGGACCGGTTCCACGAGCAGTTTCACAGCC
TCAGGAACTTCTTCCGCAGAGCCTCCGACATGCTGTACTTCAAGCGGCTCATCCAGATCCCCCGGCTGCCCGAGG
GACCCCCTAACTTCCTGCGGGCCTCAGCCCTGGCTGAGCACATCAAGCCGGTGGTGGTGATCCCCGAGGAGGCCC
CGGAAGATGAGGAGCCGGAGAATCTCATTGAGATCAGCACAGGGCCCCCCGCGGGGGAGCCAGTGGTGGTGGCTG
ACCTCTTCGATCAGACGTTTGGACCCCCCAATGGGTCTGTGAAGGACGACAGGGACCTCCAGATTGAGAGCTTGA
AGAGAGAGGTGGAAATGCTCCGCTCTGAACTGGAGAAGATCAAGCTGGAGGCCCAGCGGTACATCGCGCAGCTGA
AGAGCCAGGTGAATGCACTGGAGGGTGAGCTGGAGGAGCAGCGGAAGCAGAAGCAGAAGGCCCTGGTGGATAATG
AGCAGCTCCGCCACGAGCTGGCCCAGCTGAGGGCTGCCCAGCTGGAGGGCGAGCGGAGCCAGGGCCTGCGTGAGG
AGGCTGAGAGGAAGGCCAGTGCCACGGAGGCGCGCTACAACAAGCTGAAGGAAAAGCACAGTGAGCTCGTCCATG
TGCACGCGGAGCTGCTCAGAAAGAACGCGGACACAGCCAAGCAGCTGACGGTGACGCAGCAAAGCCAGGAGGAGG
TGGCGCGGGTGAAGGAGCAGCTGGCCTTCCAGGTGGAGCAGGTGAAGCGGGAGTCGGAGTTGAAGCTAGAGGAGA
AGAGCGACCAGCTGGAGAAGCTCAAGAGGGAGCTGGAGGCCAAGGCCGGAGAGCTGGCCCGCGCGCAGGAGGCCC
TGAGCCACACAGAGCAGAGCAAGTCGGAGCTGAGCTCACGGCTGGACACGCTGAGTGCGGAGAAGGATGCTCTGA
GTGGAGCTGTGCGGCAGCGGGAGGCAGACCTGCTGGCGGCGCAGAGCCTGGTGCGCGAGACAGAGGCGGCGCTGA
GCCGGGAGCAGCAGCGCAGCTCCCAGGAGCAGGGCGAGTTGCAGGGCCGGCTGGCAGAGAGGGAGTCTCAGGAGC
AGGGGCTGCGGCAGAGGCTGCTGGACGAGCAGTTCGCAGTGTTGCGGGGCGCTGCTGCCGAGGCCGCGGGCATCC
TGCAGGATGCCGTGAGCAAGCTGGACGACCCCCTGCACCTGCGCTGTACCAGCTCCCCAGACTACCTGGTGAGCA
GGGCCCAGGAGGCCTTGGATGCCGTGAGCACCCTGGAGGAGGGCCACGCCCAGTACCTGACCTCCTTGGCAGACG
CCTCCGCCCTGGTGGCAGCTCTGACCCGCTTCTCCCACCTGGCTGCGGATACCATCATCAATGGCGGTGCCACCT
CGCACCTGGCTCCCACCGACCCTGCCGACCGCCTCATAGACACCTGCAGGGAGTGCGGGGCCCGGGCTCTGGAGC
TCATGGGCAGCTGCAGGACCAGCAGGCTCTGCGGCACATGCAGGCCAGCCTGGTGCGGACACCCCTGCAGGGCA
TCCTTCAGCTGGGCCAGGAACTGAAACCCAAGAGCCTAGATGTGCGGCAGGAGGAGCTGGGGGCCGTGGTCGACA
AGGAGATGGCGGCCACATCCGCAGCCATTGAAGATGCTGTGCGGAGGATTGAGGACATGATGAACCAGGCACGCC
ACGCCAGCTCGGGGGTGAAGCTGGAGGTGAACGAGAGGATCCTCAACTCCTGCACAGACCTGATGAAGGCTATCC
GGCTCCTGGTGACGACATCCACTAGCCTGCAGAAGGAGATCGTGGAGAGCGGCAGGGGGGCAGCCACGCAGCAGG
AATTTTACGCCAAGAACTCGCGCTGGACCGAAGGCCTCATCTCGGCCTCCAAGGCTGTGGGCTGGGGAGCCACAC
AGCTGGTGGAGGCAGCTGACAAGGTGGTGCTTCACACGGGCAAGTATGAGGAGCTCATCGTCTGCTCCCACGAGA
TCGCAGCCAGCACGGCCCAGCTGGTGGCGGCCTCCAAGGTGAAGGCCAACAAGCACAGCCCCCACCTGAGCCGCC
TGCAGGAATGTTCTCGCACAGTCAATGAGAGGGCTGCCAATGTGGTGGCCTCCACCAAGTCAGGCCAGGAGCAGA
TTGAGGACAGAGACACCATGGATTTCTCCGGCCTGTCCCTCATCAAGCTGAAGAAGCAGGAGATGGAGACCCAGG
TGCGTGTCCTGGAGCTGGAGAAGACGCTGGAGGCTGAACGCATGCGGCTGGGGGAGTTGCGGAAGCAACACTACG
TGCTGGCTGGGGCATCAGGCAGCCCTGGAGAGGAGGTGGCCATCCGGCCCAGCACTGCCCCCCGAAGTGTAACCA
CCAAGAAACCACCCCTGCCCAGAAGCCCAGCGTGGCCCCCAGACAGGACCACCAGCTTGACAAAAAGGATGGCA
TCTACCCAGCTCAACTCGTGAACTACTAGGCCCCCCAGGGGTCCAGCAGGGTGGCTGGTGACAGGCCTGGGCCTC
TGCAACTGCCCTGACAGGACCGAGAGGCCTTGCCCCTCCACCTGGTGCCCAAGCCTCCCGCCCCACCGTCTGGAT
CAATGTCCTCAAGGCCCCTGGCCCTTACTGAGCCTGCAGGGTCCTGGGCCATGTGGGTGGTGCTTCTGGATGTGA
GTCTCTTATTTATCTGCAGAAGGAACTTTGGGGTGCAGCCAGGACCCGGTAGGCCTGAGCCTCAACTCTTCAGAA
AATAGTGTTTTTAATATTCCTCTTCAGAAAATAGTGTTTTTAATATTCCGAGCTAGAGCTCTTCTTCCTACGTTT
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FIGURE 3841B

GTAGTCAGCACACTGGGAAACCGGGCCAGCGTGGGGCTCCCTGCCTTCTGGACTCCTGAAGGTCGTGGATGGATG
GAAGGCACACAGCCCGTGCCGGCTGATGGGACGAGGGTCAGGCATCCTGTCTGTGGCCTTCTGGGGCACCGATTC
TACCAGGCCCTCCAGCTGCGTGGTCTCCGCAGACCAGGCTCTGTGTGGGCTAGAGGAATGTCGCCCATTACTCCT
CAGGCCTGGCCCTCGGGCCTCCGTGATGGGAGCCCCCCAGGAGGGGTCAGATGCTGGAAGGGGCCGCTTTCTGGG
GAGTGAGGTGAGACATAGCGGCCCGGGCGCTGCCTTCACTCCTGGAGTGAGTTTCCATTTCCAGCTGGAATCTGC
AGCCACCCCCATTTCCTGTTTTCCATTCCCCCGTTCTGGCCGCGCCCCACTGCCCACCTGAAGGGGTGGTTTCCA
GCCCTCCGGAGAGTGGGCTTGGCCCTAGGCCCTCCAGCTCAGCCAGAAAAAGCCCAGAAACCCAGGTGCTGGACC
AGGGCCCTCAGGGAGGGGACCCTGCGGCTAGAGTGGGCTAGGCCCTGGCTTTGCCCGTCAGATTTGAACGAATGT
GTGTCCCTTGAGCCCAAGGAGAGCGGCAGGAGGGGTGGGACCAGGCTGGGAGGACAGAGCCAGCAGCTGCCATGC
CCTCCTGCTCCCCCCACCCCAGCCCTAGCCCTTTAGCCTTTCACCCTGTGCTCTGGAAAGGCTACCAAATACTGG
CCAAGGTCAGGAGGAGCAAAAATGAGCCAGCACCAGCGCCTTGGCTTTGTGTTAGCATTTCCTCCTGAAGTGTTC
TGTTGGCAATAAAATGCACTTTGACTGTTTGTTGTC

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FIGURE 3842

MNSIKNVPARVLSRRPGHSLEAEREQFDKTQAISISKAINTQEAPVKEKHARRIILGTHHEKGAFTFWSYAIGLP
LPSSSILSWKFCHVLHKVLRDGHPNVLHDCQRYRSNIREIGDLWGHLHDRYGQLVNVYTKLLLTKISFHLKHPQF
PAGLEVTDEVLEKAAGTDVNNIFQLTVEMFDYMDCELKLSESVFRQLNTAIAVSQMSSGQCRLAPLIQVIQDCSH
LYHYTVKLLFKLHSCLPADTLQGHRDRFHEQFHSLRNFFRRASDMLYFKRLIQIPRLPEGPPNFLRASALAEHIK
PVVVIPEEAPEDEEPENLIEISTGPPAGEPVVVADLFDQTFGPPNGSVKDDRDLQIESLKREVEMLRSELEKIKL
EAQRYIAQLKSQVNALEGELEEQRKQKQKALVDNEQLRHELAQLRAAQLEGERSQGLREEAERKASATEARYNKL
KEKHSELVHVHAELLRKNADTAKQLTVTQQSQEEVARVKEQLAFQVEQVKRESELKLEEKSDQLEKLKRELEAKA
GELARAQEALSHTEQSKSELSSRLDTLSAEKDALSGAVRQREADLLAAQSLVRETEAALSREQQRSSQEQGELQG
RLAERESQEQGLRQRLLDEQFAVLRGAAAEAAGILQDAVSKLDDPLHLRCTSSPDYLVSRAQEALDAVSTLEEGH
AQYLTSLADASALVAALTRFSHLAADTIINGGATSHLAPTDPADRLIDTCRECGARALELMGQLQDQQALRHMQA
SLVRTPLQGILQLGQELKPKSLDVRQEELGAVVDKEMAATSAAIEDAVRRIEDMMNQARHASSGVKLEVNERILN
SCTDLMKAIRLLVTTSTSLQKEIVESGRGAATQQEFYAKNSRWTEGLISASKAVGWGATQLVEAADKVVLHTGKY
EELIVCSHEIAASTAQLVAASKVKANKHSPHLSRLQECSRTVNERAANVVASTKSGQEQIEDRDTMDFSGLSLIK
LKKQEMETQVRVLELEKTLEAERMRLGELRKQHYVLAGASGSPGEEVAIRPSTAPRSVTTKKPPLAQKPSVAPRQ
DHQLDKKDGIYPAQLVNY

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FIGURE 3843

GTCCTCTCGAGAAGGCGCGGGGCGGGCTGTCCGGCCCGCAGGGCGGTCGAGCCCGCGGCGCC**ATG**GCTCACGTCG
GCTCCCGCAAGCGCTCGAGGAGTCGCAGCCGGTCCCGGGGACGGGGGTCGGAAAAGAGAAAGAAGAAGAGCAGGA
AAGACACCTCGAGGAACTGCTCGGCCTCCACATCCCAAGAGAGAAGCAAGCAGAAGGCCCGGAGGAGAACAAGAT
CCAGCTCCTCCTCCTCTTCTTCCAGTTCTTCTAGCTCCTCTTCTTCCTCCTCGTCCTCCTCCTCTTCCTCCAGTG
ATGGCCGGAAGAAGCGGGGGAAGTACAAGGACAAGAGGAGGAAGAAGAAGAAGAAGAGGAAGAAGCTGAAGAAGA
AGGGCAAGGAGAAGGCGGAAGCACAGCAGGTGGAGGCTCTGCCGGGCCCCTCGCTGGACCAGTGGCACCGATCAG
CTGGGGAGGAAGAGGATGGCCCAGTCCTGACGGATGAGCAGAAGTCCCGAATCCAGGCCATGAAGCCCATGACCA
AGGAGGAGTGGGATGCCCGGCAGAGCATCATCCGCAAGGTGGTGGACCCTGAGACGGGGCGCACCAGGCTTATTA
AGGGAGATGGCGAGGTCCTAGAGGAAATCGTAACCAAAGAACGACACAGAGAGATCAACAAGCAAGCCACCCGAG
GGGACTGCCTGGCCTTCCAGATGCGAGCTGGGTTGCTTCCC**TGA**GGGCCCCCGCTGGCCAAGGCCTGTGGACGAC
GCTGGCGGCCCAGCCTGGGCAGGTTTCAGGGTGCCAGTGGGAAGCCTGATGGGTGCTGGTGGCCTTTCCCCCGTG
GATTGGTCTCTGGCCCAGCCCAGTCTCTTCTCAGGGGCAGGGGGTGGAGGTTGGGGTCACCGGCCTGCTTGGCAC
CCCCATCTGAAAGAGCAGCACTTCTCAGCTATTAAAGGCCCCCTGGATAGAC

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FIGURE 3844

MAHVGSRKRSRSRSRSRGRGSEKRKKKSRKDTSRNCSASTSQERSKQKARRRTRSSSSSSSSSSSSSSSSSSSSSS
SSSSDGRKKRGKYKDKRRKKKKKRKKLKKKGKEKAEAQQVEALPGPSLDQWHRSAGEEEDGPVLTDEQKSRIQAM
KPMTKEEWDARQSIIRKVVDPETGRTRLIKGDGEVLEEIVTKERHREINKQATRGDCLAFQMRAGLLP

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FIGURE 3845

GCGTGGATGCAACTAGAGAGACAAATCGCCTAGGAAGACTGATCAATCACAGCAAATGTGGGAACTGCCAAACCA
AACTGCACGACATCGACGGCGTACCTCACCTCATCCTCATCGCCTCCCGAGACATCGCGGCTGGGGAGGAGCTCC
TGTATGACTATGGGGACCGCAGCAAGGCTTCCATTGAAGCCCACCCGTGGCTGAAGCATTAACCGGTGGGCCCCG
TGCCCTCCCCGCCCCACTTTCCCTTCTTCAAAGGACAAAGTGCCCTCAAAGGGAATTGAATTTTTTTTTTACACA
CTTAATCTTAGCGGATTACTTCAGATGTTTTTAAAAAGTATATTAAGATGCCTTTTCACTGTAGTATTTAAATAT
CTGTTACAGGTTTCCAAGGTGGACTTGAACAG**ATG**GCCTTATATTACCAAAACTTTTATATTCTAGTTGTTTTTG
TACTTTTTTTGCATACAAGCCGAACGTTTGTGCTTCCCGTGCATGCAGTCAAAGACTCAGCACAGGTTTTAGAGG
AAATAGTCAAACATGAACTAGGAAGCCAGGTGAGTCTCCTTTCTCCAGTGGAAGAGCCGGGACCTTCCCCCTGCA
CCCCCGACATCCAGGGACGGGGTGTGAGGAAGACGCTGCCTCCCAATGGCCTGGACGGGATGTTTCCAAGCTCTT
GTTCCCCTAACGTCTCAACAGGCGCTCAC**TGA**AGTGTATGAATATTTTTAAAAAGGTTTTTGCAGTAAGCTAGT
CTTCCCCTCTGCTTTCTCGAAAGCTTACTGAGCCCCGGGCCCCAAGCACGGGCCGGGCATAGATTTCCTCTTCCA
CAAGCTGCCGCTTTTCTGGGCACCTTGAAGCATCAGGGCGTGAAATCAAACTAGATGTGGGCAGGGAGAGGGTTG
CTTACCTGCCCTGCTGGGGCAGGGTTTCCTGAAACTGGGTTAATTCTTTATAGAAATGTGAACACTGAATTTATT
TTAAAAAATAATAATAAAAATTTAAAAAAATTAAAAATA

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FIGURE 3846

MALYYQNFYILVVFVLFLHTSRTFVLPVHAVKDSAQVLEEIVKHELGSQVSLLSPVEEPGPSPCTPDIQGRGVRK
TLPPNGLDGMFPSSCSPNVSTGAH

FIGURE 3847

CTGGCTTCGGCCTCAGCCCCACC<u>ATG</u>GTGACGCTTGCTGAACTGCTGGTGCTCCTGGCCGCTCTCCTGGCCACGG
TCTCGGGCTATTTCGTTAGCATCGACGCCCATGCTGAAGAGTGCTTCTTTGAGCGGGTCACCTCGGGCACCAAGA
TGGGCCTCATCTTCGAGGTGGCGGAGGGCGGCTTCCTGGACATCGACGTGGAGATTACAGGACCAGATAACAAAG
GAATTTACAAAGGAGACAGAGAATCCAGTGGGAAATACACATTTGCTGCTCACATGGATGGAACATACAAATTTT
GTTTTAGTAACCGGATGTCCACCATGACTCCAAAAATAGTGATGTTCACCATTGATATTGGGGAGGCTCCAAAAG
GACAAGATATGGAAACAGAAGCTCACCAGAACAAGCTAGAAGAAATGATCAATGAGCTAGCAGTGGCGATGACAG
CTGTAAAGCACGAACAGGAATACATGGAAGTCCGGGAGAGAATACACAGAGCCATCAACGACAACACAAACAGCA
GAGTGGTCCTTTGGTCCTTCTTTGAAGCTCTTGTTCTAGTTGCCATGACATTGGGACAGATCTACTACCTGAAGA
GATTTTTTGAAGTCCGGAGAGTTGTT<u>TAA</u>AAAGCCTCTTCCTGATGATCCCAACTCAGAATTCACTGTTTACCAA
ACACCTTGGTCATAATAATGTCATTAGTTTCTCCATTTTTATTTTCTGAACTGTACATTCACAACTTATGTTTCT
TTGAGATTAATAGATATTGGGGGGAAAAACGCCTTTTTAGGAAAATTATAGTGAAAATTTGACAGTTGATTGGCAT
AATTTCTTGTTTGAATGCTGCCTCCATTATATAGGTCCTTCCAGGAACTCAAACACTGTAAGTGAAATATGGGAG
TATAGTTTTTATTATTTCTTCTTTTCCTTTTGTTTTCATAATATAATGCAGTTTGTTCAGGAAATCAGCACAAAG
CCTGATAGTACTTTACTAAAATGACTGCATTCTTTGGATTCCTTCAGTCTATGGTTCAAGTCACTAAAGATTCAT
TTTTGTTGAGTCCTTATGAGAAACAGCAGTATGAATCTTGACGGTTTCTGCCCGTCCTAATGGCAGAGCTCTCTG
ACTTGGGTGTATGCTGCCAGGCTGGGTACTTTCATACTTTGTTTTCTTGTTTTGCTTTAAAACTACGACTCAGCA
TACATTTTCCCACATACATTTTTACATTGTACCTTAGGACTCAGTCATCTCCACTTAAATTGATGACACAAGCAG
CTAATAACCATTTCTGGGTTTCTGCCTAACCCCCTAATTGTCTGTTAAAGCCAATTCTCTGGGTGTCCCAGTGAG
TGGTGGCTTTTTTTCTTTCCACATTGGCACATTCACTTCTCCCACTCTTGGCATGTAAGAAATAAGCATTTACAT
AATTGGAAAAATCTGGATTTCTGATGCCAAAGGGTTAAAGCTTCTTGGATTTCATTTCATTGATATACAGCCACT
ATTTTATTTTTGATCAGTGGCCTTTGGGCCACTGTTCAGGGTACTGACCATCAGTGTCAGCATTAGGGTTTTGGT
TTTTGTTTCTTTTGGGTATTTCTTTTTTGGCACATGTGAATCTTGTTTTGTGTAAAATGAAATTACTTTCTCTTG
TTCTCTGATGATGGGTTTAAAATTAAAAGAGCATCCGGTTTTGGTATGGGGATGATCCAGGATTATGTTGTGACT
GATACATATTAGTTACTTGTGCTTTTTTTTTTTTTTTTGGATCTTTGCAAGGGCAAAACTACAAGTAACGAGTT
TTATATAATTAATTTAAATTTGTTACAGGTTTTCATGTTCAGGATAAACCATACTTCCACCTTGGGTGAGAACAC
TTGCAACAGTTTATTAATGAGGTGACTTTCACCTTAGGACAACTGTTGCATGCCAAGTTTTTTGTGTGTGTGAAA
CACTTCAAAACTGATTTAAAAGATGTAAATTTAAAATTGGTTGTATCTAATATGCCCCAGGTTCGGTAAATAAAC
AATTCTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAA

4172/6881
FIGURE 3848

MVTLAELLVLLAALLATVSGYFVSIDAHAEECFFERVTSGTKMGLIFEVAEGGFLDIDVEITGPDNKGIYKGDRE
SSGKYTFAAHMDGTYKFCFSNRMSTMTPKIVMFTIDIGEAPKGQDMETEAHQNKLEEMINELAVAMTAVKHEQEY
MEVRERIHRAINDNTNSRVVLWSFFEALVLVAMTLGQIYYLKRFFEVRRVV

4173/6881
FIGURE 3849

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ATCTGCGGAAGTGGAGTGCGGGGAGTGCGCCGGAAGAGGGGTACGGAAGTGCGCCGGAAGTGGGGTGCGGAGGTG
TGCAGCGCGCTGTCAGACTGGCTCGCAGGCGGCGCGGCCGGCGGACCCGTTCGAGACAGCGCGGGCGGCTCGGGT
CCCCTGGGGCTCCGCAGCAGGAGGACGCCATGGACGACAAGGAGTTAATTGAATACTTTAAGTCTCAGATGAAAG
AAGATCCTGACATGGCCTCAGCAGTGGCTGCCATCCGGACGTTGCTGGAGTTCTTGAAGAGAGATAAAGGGGAGA
CAATCCAGGGTCTGAGGGCGAATCTCACCAGTGCCATAGAAACCCTGTGTGGTGTGGACTCCTCTGTGGCAGTGT
CCTCTGGCGGGGAGCTCTTCCTCCGCTTCATCAGTCTTGCCTCCCTGGAATACTCCGATTACTCCAAATGTAAAA
AGATCATGATTGAGCGGGGAGAACTTTTTCTCAGGAGAATATCACTGTCAAGAAACAAAATTGCAGATCTGTGCC
ATACTTTCATCAAAGATGGAGCGACAATATTGACTCACGCCTACTCCAGAGTGGTCCTGAGAGTCCTGGAAGCAG
CCGTGGCGGCCAAGAAGCGATTAGTGTATACGTCACAGAGTCACAGCCTGATTTGTCAGGTAAGAAAATGGCCA
AAGCCCTCTGCCACCTCAACGTCCCTGTCACTGTGGTGCTAGATGCTGCTGTCGGCTACATCATGGAGAAAGCAG
ATCTTGTCATAGTTGGTGCTGAAGGAGTTGTTGAAAACGGAGGAATTATTAACAAGATTGGAACCAACCAGATGG
CTGTGTGTGCCAAAGCACAGAACAAACCTTTCTATGTGGTTGCAGAAAGTTTCAAGTTTGTCCGGCTCTTTCCAC
TAAACCAGCAAGACGTCCCAGATAAGTTTAAGTATAAGGCAGACACTCTCAAGGTCGCGCAGACTGGACAAGACC
TCAAAGAGGAGCATCCGTGGGTCGACTACACTGCCCCTTCCTTAATCACTCTGCTGTTTACAGACCTGGGCGTGC
TGACACCCTCAGCAGTCAGCGATGAGCTCATCAAGCTCTATCTGTAACCTGTGAGCCCTTTCCTGCCAAGGTGCA
GCTTACGTAGTTGAGGCAGGGTGAGTAGCTGCTTGACACCCCAGTGAGTCAGGCCAAAACTGAGATGTGTTTAAT
GAAGATTTATGGAGTAAGGACTTAAAATCATACATCTTGGAGAACCTTTCTTACTCATTTCAGTCCCATCTAAAA
ATGTGTCAGCTATTCTAAATCCCAACTTAAATTGTTCTTACGGTTTCTAGAAACTTTCCTTTTCAGTTTCCAGAA
ATACAAGTTAGATAATTGGCTACTTAACTGATGAAAGATGAGCCCAAGTCCACCTGTCTTCATCCTCCCCTGCAC
TCCAGACTGATCTGCCTAAAGCACGCGAGATGCAGGCGAAAAGCAGCCACACCCCTCTGCCACAAATGACCAACA
GCTGGTCAGGACGTTACACGCGGTGCCTTGTAAGAGGCAAGAAACACTTGCTGAATCTGCATCTGGCTTCCAGTG
GTAAGCACATTCCTCAGCAGGATCAAGCCAAACAGTAAAAACTACCAAGAGAACACGAGGAAGGCAGAAACGATG
TTTAGCAACAGTATTCTGCATGGTTCACTGCTTAAGAAAATGCCTTCTGGAATATTTGTAAACTGAAATTCTGTA
TGTGTAAGAGATGTTTAAATATGTTTGGGTCCTAAACAGCTTTTTAAAATTATACTTGGGAATAAATTCAGCATC
TTTTCAAATAAACTCTATGAAAGAC
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4174/6881
FIGURE 3850

MDDKELIEYFKSQMKEDPDMASAVAAIRTLLEFLKRDKGETIQGLRANLTSAIETLCGVDSSVAVSSGGELFLRF
ISLASLEYSDYSKCKKIMIERGELFLRRISLSRNKIADLCHTFIKDGATILTHAYSRVVLRVLEAAVAAKKRFSV
YVTESQPDLSGKKMAKALCHLNVPVTVVLDAAVGYIMEKADLVIVGAEGVVENGGIINKIGTNQMAVCAKAQNKP
FYVVAESFKFVRLFPLNQQDVPDKFKYKADTLKVAQTGQDLKEEHPWVDYTAPSLITLLFTDLGVLTPSAVSDEL
IKLYL

FIGURE 3851

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GTGAGTGGCTTCCACAGGCCATGCACCCCGATATCGAGAAAGCCTGGCCCCCCACCACTGTCCACTGACCAGAAA
CCTGGCTGCAGGGCCGAGGACTGGTTTGGGGACTGGAGGGCTGGCAGCAGCCTGTCACCGTGCGACCGTGACCAC
CTGGCATGGGCTTCGTGGCCTGCTCTCAGGAAGTGGGTCAAGCCCTGGGAACCCTCATCCATGAGAGCTCGATCC
CGTATGAAGGGTGCTGCCGCCCGTGCCATCTGGCCCGGGGGTGACTTTTTGAACTGTTTATTATATGGTGGATGA
TGATTTCATCTCACGTGCTGGACGCTGTTCTGTTCAGTGTGCTCTTTGGACTACATTAGTCCCCTGTGGAGCAGC
AGGGCTGGAGATCTCTGCAGTCCCTTCCCCGCCCGCCCTGCCAGAAGGCCGAGGAGGCACGTGGAGGGCCTCCTT
CCTGCAATTCTTCCCTCTCCAGAGTCAGGGAGGGCTGCCCAGCCCTGGCCTCACAGCCGTCCCAGATGTTAGGTG
AGCCACTGAGCTCTGTGTTGACCTTGAGGGGCCTGGCTGGGGGCCCCCAGGCTCCATGCCTTCTTGGGAGGGTGG
CCGCCAACGCCTTTCCTGTGTTATGGCAACAGGGAGTGGGCATCTCATCTGCCTGTGGTCAGCTCTCAGACGGCA
GGGAGCGGAGCTGACGTTGGCTGTGCTTGGTCACCGCTGCCATGCCGCAGAGGATGCGCCTAGCTGGGCTGGGGC
CACACGACTATTATGTTGGCCTTGAACGGGGACTGCAGAGCCCTCAGTTTGTCTCCCTTGTTCCTCTGTGGCTGA
GGTGGGAGGGGGAGGGTGGGGTAGGTCCCCCAGCAAGAAAGAGGGACAGGAGCACCCCAGGCAGGACCAAGGAGT
CGGGAGGCCCCTGCCTTCTGTCCTCCATGGTGAGGGCACAGATGTCTCCCCAGAGCCCAGCGCTGGCAGAATGGA
TTCTGCTCCTGGCTTTGCTTCTGCGGCTTCGGTGGAGACAGTTATGGAATAAAATGTTCCTTGCAAAAAAAAAAA
AAAAAAA
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4176/6881
FIGURE 3852

MGFVACSQEVGQALGTLIHESSIPYEGCCRPCHLARG

FIGURE 3853

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AGTTCCGTCGCAGCCGGGATTTGGGTCGCGGTTCTTGTTTGTGGATCGCTGTGATCGTCACTTGGTGAGTAGCGG
GCTGCTGGGCTGGCCGGGGCTTTCGTGGCCGCCGGGCCGCTCGGTGGGACGGAAGCGTGTGGAGAGACCGCCAAG
GGCTGTAGTCTGGGTCCGCGAGCAAGGTTGCCCTGAACTGGGGGTTGGGGGGAGCGCAGCAAAATGGCGGCTGTT
CCCGAGTCTTGAATGGAAGACGCTTGTGAGGCGGGCTGTGAGGTCGTTGAAACAAGGTGGGGGGCATGGTGGGCG
GCAAGAACCCAAGGTCTTGAGGCCTTCGCTAATGCGGGAAAGCTCTTATTCGGGTGAGATGGGCTGGGGCACCAT
CTGGGGACCCTGACGTGAAGTTTGTCACTGACTGGAGAACTCGGTTTGTCGTCTGTTGCGGGGGCGGCAGTTATG
GCGGTGCCGTTGGGCAGTGCACCCGTACCTTTGGGAGCGCGCGCCCTCGTCGTGTCGTGACGTCACCCGTTCTGT
TGGCTTATAATGCAGGGTGGGGCCACCTGCCGGTAGGTGTGCGGTAGGCTTTTCTCCGTCGCAGGACGCAGGGTT
CGGGCCTAGGGTAGGCTCTCCTGAATCGACAGGCGCCGGACCTCTGGTGAGGGGAGGGATAAGTGAGGCGTCAGT
TTCTTTGGTCGGTTTTATGTACCTATCTTCTTAAGTAGCTGAAGCTCCGGTTTTGAACTATGCGCTCGGGGTTGG
CGAGTGTGTTTGTGAAGTTTTTTAGGCACCTTTTGAAATGTAATCATTTGGGTCAATATGTAATTTTCAGTGTT
AGACTAGTAAATTGTCCGCTAAATTCTGGCCGTTTTTGGCTTTTTTGTTAGACAATGCAGATCTTCGTGAAGACT
CTGACTGGTAAGACCATCACCCTCGAGGTTGAGCCCAGTGACACCATCGAGAATGTCAAGGCAAAGATCCAAGAT
AAGGAAGGCATCCCTCCTGACCAGCAGAGGCTGATCTTTGCTGGAAAACAGCTGGAAGATGGGCGCACCCTGTCT
GACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTGCTCCGTCTCAGAGGTGGGATGCAAATCTTCGTGAAG
ACACTCACTGGCAAGACCATCACCCTTGAGGTGGAGCCCAGTGACACCATCGAGAACGTCAAAGCAAAGATCCAG
GACAAGGAAGGCATTCCTCCTGACCAGCAGAGGTTGATCTTTGCCGGAAAGCAGCTGGAAGATGGGCGCACCCTG
TCTGACTACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGCTCCGTCTCAGAGGTGGGATGCAGATCTTCGTG
AAGACCCTGACTGGTAAGACCATCACCCTCGAGGTGGAGCCCAGTGACACCATCGAGAATGTCAAGGCAAAGATC
CAAGATAAGGAAGGCATTCCTCCTGATCAGCAGAGGTTGATCTTTGCCGGAAAACAGCTGGAAGATGGTCGTACC
CTGTCTGACTACAACATCCAGAAAGAGTCCACCTTGCACCTGGTACTCCGTCTCAGAGGTGGGATGCAAATCTTC
GTGAAGACACTCACTGGCAAGACCATCACCCTTGAGGTCGAGCCCAGTGACACTATCGAGAACGTCAAAGCAAAG
ATCCAAGACAAGGAAGGCATTCCTCCTGACCAGCAGAGGTTGATCTTTGCCGGAAAGCAGCTGGAAGATGGGCGC
ACCCTGTCTGACTACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGCTCCGTCTCAGAGGTGGGATGCAGATC
TTCGTGAAGACCCTGACTGGTAAGACCATCACCCTCGAAGTGGAGCCGAGTGACACCATTGAGAATGTCAAGGCA
AAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCCGGAAAACAGCTGGAAGATGGT
CGTACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCTTGCACCTGGTGCTCCGTCTCAGAGGTGGGATGCAG
ATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAGGTGGAGCCGAGTGACACCATTGAGAATGTCAAG
GCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGATCAGCAGAGGTTGATCTTTGCTGGGAAACAGCTGGAAGAT
GGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTGCTCCGTCTTAGAGGTGGGATG
CAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGCCGAGTGACACCATTGAGAATGTC
AAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCTGGGAAACAGCTGGAA
GATGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTGCTCCGTCTTAGAGGTGGG
ATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGCCGAGTGACACCATTGAGAAT
GTCAAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCTGGGAAACAGCTG
GAAGATGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTGCTCCGTCTCAGAGGT
GGGATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACCCTCGAGGTGGAGCCCAGTGACACCATCGAG
AATGTCAAGGCAAAGATCCAAGATAAGGAAGGCATCCCTCCTGATCAGCAGAGGTTGATCTTTGCTGGGAAACAG
CTGGAAGATGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACTCTGCACTTGGTCCTGCGCTTGAGG
GGGGGTGTCTAAGTTTCCCCTTTTAAGGTTTCAACAAATTTCATTGCACTTTCCTTTCAATAAAGTTGTTGCATT
CCCAATTGGTGTTTTTTTTTTTTTTTTTTTTTTTTTTAAGTTTATTTGCATT
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4178/6881
FIGURE 3854

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRG
GMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLR
GGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRL
RGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLR
LRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVL
RLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLV
LRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHL
VLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLH
LVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTL
HLVLRLRGGV

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FIGURE 3855

GGAAGATGGTCGTACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCTTGCACCTGGTGCTCCGTCTCAGAGG
TGGGATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAGGTGGAGCCGAGTGACACCATTGA
GAATGTCAAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGATCAGCAGAGGTTGATCTTTGCTGGGAAACA
GCTGGAAGATGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTGCTCCGTCTTAG
AGGTGGGATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGCCGAGTGACACCAT
TGAGAATGTCAAGGCAAAGATCCAAGACCCTGACTGGTAAGACCATCACT

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FIGURE 3856A

CATGTCGGGATCCACACAGCCTGTGGCACAGACGTGGAGGGCCACTGAGCCCCGCTACCCGCCCCACAGCCTTTC
CTACCCAGTGCAGATCGCCCGGACGCACACGGACGTCGGGCTCCTGGAGTACCAGCACCACTCCCGCGACTATGC
CTCCCACCTGTCGCCCGGCTCCATCATCCAGCCCCAGCGGCGGAGGCCCTCCCTGCTGTCTGAGTTCCAGCCCGG
GAATGAACGGTCCCAGGAGCTCCACCTGCGGCCAGAGTCCCACTCATACCTGCCCGAGCTGGGGAAGTCAGAGAT
GGAGTTCATTGAAAGCAAGCGCCCTCGGCTAGAGCTGCTGCCTGACCCCCTGCTGCGACCGTCACCCCTGCTGGC
CACGGGCCAGCCTGCGGGATCTGAAGACCTCACCAAGGACCGTAGCCTGACGGGCAAGCTGGAACCGGTGTCTCC
CCCCAGCCCCCCGCACACTGACCCTGAGCTGGAGCTGGTGCCGCCACGGCTGTCCAAGGAGGAGCTGATCCAGAA
CATGGACCGCGTGGACCGAGAGATCACCATGGTAGAGCAGCAGATCTCTAAGCTGAAGAAGAAGCAGCAACAGCT
GGAGGAGGAGGCTGCCAAGCCGCCCGAGCCTGAGAAGCCCGTGTCACCGCCGCCCATCGAGTCGAAGCACCGCAG
CCTGGTGCAGATCATCTACGACGAGAACCGGAAGAAGGCTGAAGCTGCACATCGGATTCTGGAAGGCCTGGGGCC
CCAGGTGGAGCTGCCGCTGTACAACCAGCCCTCCGACACCCGGCAGTATCATGAGAACATCAAAATAAACCAGGC
GATGCGGAAGAAGCTAATCTTGTACTTCAAGAGGAGGAATCACGCTCGGAAACAATGGGAGCAGAAGTTCTGCCA
GCGCTATGACCAGCTCATGGAGGCCTGGGAGAAGAAGGTGGAGCGCATCGAGAACAACCCCCGGCGGCGGGCCAA
GGAGAGCAAGGTGCGCGAGTACTACGAGAAGCAGTTCCCTGAGATCCGCAAGCAGCGCGAGCTGCAGGAGCGCAT
GCAGAGCAGGGTGGGCCAGCGGGGCAGTGGGCTGTCCATGTCGGCCGCCCGCAGCGAGCACGAGGTGTCAGAGAT
CATCGATGGCCTCTCAGAGCAGGAGAACCTGGAGAAGCAGATGCGCCAGCTGGCCGTGATCCCGCCCATGCTGTA
CGACGCTGACCAGCAGCGCATCAAGTTCATCAACATGAACGGGCTTATGGCCGACCCCATGAAGGTGTACAAAGA
CCGCCAGGTCATGAACATGTGGAGTGAGCAGGAGAAGGAGACCTTCCGGGAGAAGTTCATGCAGCATCCCAAGAA
CTTTGGCCTGATCGCATCATTCCTGGAGAGGAAGACAGTGGCTGAGTGCGTCCTCTATTACTACCTGACTAAGAA
GAATGAGAACTATAAGAGCCTGGTGAGACGGAGCTATCGGCGCCGCGGCAAGAGCCAGCAGCAGCAACAACAGCA
GCAGCAGCAGCAGCAGCAGCAGCAGCAGCCCATGCCCCGCAGCAGCCAGGAGGAGAAAGATGAGAAGGAGAA
GGAAAAGGAGGCGGAGAAGGAGGAGGAGAAGCCGGAGGTGGAGAACGACAAGGAAGACCTCCTCAAGGAGAAGAC
AGACGACACCTCAGGGGAGGACAACGACGAGAAGGAGGCTGTGGCCTCCAAAGGCCGCAAAACTGCCAACAGCCA
GGGAAGACGCAAAGGCCGCATCACCCGCTCAATGGCTAATGAGGCCAACAGCGAGGAGGCCATCACCCCCCAGCA
GAGCGCCGAGCTGGCCTCCATGGAGCTGAATGAGAGTTCTCGCTGGACAGAAGAAGAAATGGAAACAGCCAAGAA
AGGTCTCCTGGAACACGGCCGCAACTGGTCGGCCATCGCCCGGATGGTGGGCTCCAAGACTGTGTCGCAGTGTAA
GAACTTCTACTTCAACTACAAGAAGAGGCAGAACCTCGATGAGATCTTGCAGCAGCACAAGCTGAAGATGGAGAA
GGAGAGGAACGCGCGGAGGAAGAAGAAGAAAGCGCCGGCGGCGGCCAGCGAGGAGGCTGCATTCCCGCCCGTGGT
GGAGGATGAGGAGATGGAGGCGTCGGGCGTGAGCGGAAATGAGGAGGAGATGGTGGAGGAGGCTGAAGCCTTACA
TGCCTCTGGGAATGAGGTGCCCAGAGGGGAATGCAGTGGCCCAGCCACTGTCAACAACAGCTCAGACACCGAGAG
CATCCCCTCTCCTCACACTGAGGCCGCCAAGGACACAGGCAGAATGGGCCCAAGCCCCCAGCCACCCTGGGCGC
CGACGGGCCACCCCCAGGGCCACCCACCCCACCACCGGAGGACATCCCGGCCCCCACTGAGCCCACCCCGGCCTC
TGAAGCCACCGGAGCCCCTACGCCCCCACCAGCACCCCCATCGCCCTCTGCACCTCCTCCTGTGGTCCCCAAGGA
GGAGAAGGAGGAGGAGACCGCAGCAGCGCCCCCAGTGGAGGAGGGGGGAGGAGCAGAAGCCCCCCGCGGCTGAGGA
GCTGGCAGTGGACACAGGGAAGGCCGAGGAGCCCGTCAAGAGCGAGTGCACGGAGGAAGCCGAGGAGGGGCCGGC
CAAGGGCAAGGACGCGGAGGCCGCTGAGGCCACGGCCGAGGGGGCGCTCAAGGCAGAGAAGAAGGAGGGCGGGAG
CGGCAGGGCCACCACAGCCAAGAGCTCGGGCGCCCCCCAGGACAGCGACTCCAGTGCTACCTGCAGTGCAGACGA
GGTGGATGAGGCCGAGGGCGGCGACAAGAACCGGCTGCTGTCCCCAAGGCCCAGCCTCCTCACCCCGACTGGCGA
CCCCCGGGCCAATGCCTCACCCCAGAAGCCACTGGACCTGAAGCAGCTGAAGCAGCGAGCGGCTGCCATCCCCCC
CATCCAGGTCACCAAAGTCCATGAGCCCCCCCGGGAGGACGCAGCTCCCACCAAGCCAGCTCCCCCAGCCCCACC
GCCACCGCAAAACCTGCAGCCGGAGAGCGACGCCCCTCAGCAGCCTGGCAGCAGCCCCGGGGCAAGAGCAGGAG
CCCGGCACCCCCGCCGACAAGGAGGCCTTCGCAGCCGAGGCCCAGAAGCTGCCTGGGGACCCCCCCTTGCTGGAC
TTCCGGCCTGCCCTTCCCCGTGCCCCCCCGTGAGGTGATCAAGGCCTCCCCGCATGCCCCGGACCCCTCAGCCTT
CTCCTACGCTCCACCTGGTCACCCACTGCCCCTGGGCCTCCATGACACTGCCCGGCCCGTCCTGCCGCGCCCACC
CACCATCTCCAACCCGCCTCCCCTCATCTCCTCTGCCAAGCACCCCAGCGTCCTCGAGAGGCAAATAGGTGCCAT
CTCCCAAGGAATGTCGGTCCAGCTCCACGTCCCGTACTCAGAGCATGCCAAGGCCCCGGTGGGCCCTGTCACCAT
GGGGCTGCCCCTGCCCATGGACCCCAAAAAGCTGGCACCCTTCAGCGGAGTGAAGCAGGAGCAGCTGTCCCCACG
GGGCCAGGCTGGGCCACCGGAGAGCCTGGGGGTGCCCACAGCCCAGGAGGCGTCCGTGCTGAGAGGGACAGCTCT

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FIGURE 3856B

GGGCTCAGTTCCGGGCGGAAGCATCACCAAAGGCATTCCCAGCACACGGGTGCCCTCGGACAGCGCCATCACATA
CCGCGGCTCCATCACCCACGGCACGCCAGCTGACGTCCTGTACAAGGGCACCATCACCAGGATCATCGGCGAGGA
CAGCCCGAGTCGCTTGGACCGCGGCCGGGAGGACAGCCTGCCCAAGGGCCACGTCATCTACGAAGGCAAGAAGGG
CCACGTCTTGTCCTATGAGGGTGGCATGTCTGTGACCCAGTGCTCCAAGGAGGACGGCAGAAGCAGCTCAGGACC
CCCCCATGAGACGGCCGCCCCCAAGCGCACCTATGACATGATGGAGGGCCGCGTGGGCAGAGCCATCTCCTCAGC
CAGCATCGAAGGTCTCATGGGCCGTGCCATCCCGCCGGAGCGACACAGCCCCCACCACCTCAAAGAGCAGCACCA
CATCCGCGGGTCCATCACACAAGGGATCCCTCGGTCCTACGTGGAGGCACAGGAGGACTACCTGCGTCGGGAGGC
CAAGCTCCTAAAGCGGGAGGGCACGCCTCCGCCCCCACCGCCCTCACGGGACCTGACCGAGGCCTACAAGACGCA
GGCCCTGGGCCCCCTGAAGCTGAAGCCGGCCCATGAGGGCCTGGTGGCCACGGTGAAGGAGGCGGGCCGCTCCAT
CCATGAGATCCCGCGCGAGGAGCTGCGGCACACGCCCGAGCTGCCCCTGGCCCCGCGGCCGCTCAAGGAGGGCTC
CATCACGCAGGGCACCCCGCTCAAGTACGACACCGGCGCGTCCACCACTGGCTCCAAAAAGCACGACGTACGCTC
CCTCATCGGCAGCCCCGGCCGGACGTTCCCACCCGTGCACCCGCTGGATGTGATGGCCGACGCCCGGGCACTGGA
ACGTGCCTGCTACGAGGAGAGCCTGAAGAGCCGGCCAGGGACCGCCAGCAGCTCGGGGGGCTCCATTGCGCGCGG
CGCCCCGGTCATTGTGCCTGAGCTGGGTAAGCCGCGGCAGAGCCCCCTGACCTATGAGGACCACGGGGCACCCTT
TGCCGGCCACCTCCCACGAGGTTCGCCCGTGACCACGCGGGAGCCCACGCCGCGCCTGCAGGAGGGCAGCCTTTC
GTCCAGCAAGGCATCCCAGGACCGAAAGCTGACGTCGACGCCTCGTGAGATCGCCAAGTCCCCGCACAGCACCGT
GCCCGAGCACCACCCACACCCCATCTCGCCCTATGAGCACCTGCTTCGGGGCGTGAGTGGCGTGGACCTGTATCG
CAGCCACATCCCCCTGGCCTTCGACCCCACCTCCATACCCCGCGGCATCCCTCTGGACGCAGCCGCTGCCTACTA
CCTGCCCCGACACCTGGCCCCCAACCCCACCTACCCGCACCTGTACCCACCCTACCTCATCCGCGGCTACCCCGA
CACGGCGGCGCTGGAGAACCGGCAGACCATCATCAATGACTACATCACCTCGCAGCAGATGCACCACAACGCGGC
CACCGCCATGGCCCAGCGAGCTGATATGCTGAGGGGCCTCTCGCCCCGCGAGTCCTCGCTGGCACTCAACTACGC
TGCGGGTCCCCGAGGCATCATCGACCTGTCCCAAGTGCCACACCTGCCTGTGCTCGTGCCCCCGACACCAGGCAC
CCCAGCCACCGCCATGGACCGCCTTGCCTACCTCCCCACCGCGCCCCAGCCCTTCAGCAGCCGCCACAGCAGCTC
CCCACTCTCCCCAGGAGGTCCAACACACTTGACAAAACCAACCACCACGTCCTCGTCCGAGCGGGAGCGAGACCG
GGATCGAGAGCGGGACCGGGATCGGGAGCGGGAAAAGTCCATCCTCACGTCCACCACGACGGTGGAGCACGCACC
CATCTGGAGACCTGGTACAGAGCAGAGCAGCGGCAGCAGCGGCGGGGGTGGGGGCAGCAGCAGCCGCCCCGCCTC
CCACTCCCATGCCCACCAGCACTCGCCCATCTCCCCTCGGACCCAGGATGCCCTCCAGCAGAGACCCAGTGTGCT
TCACAACACAGGCATGAAGGGTATCATCACCGCTGTGGAGCCCAGCACGCCCACGGTCCTGAGGTCCACCTCCAC
CTCCTCACCCGTTCGCCCGGCTGCCACATTCCCACCTGCCACCCACTGCCCACTGGGCGGCACCCTCGATGGGGT
CTACCCTACCCTCATGGAGCCCGTCTTGCTGCCCAAGGAGGCCCCCGGGTCGCCCGGCCAGAGCGGCCCCGAGC
AGACACCGGCCATGCCTTCCTCGCCAAGCCCCCAGCCCGCTCCGGGCTGGAGCCCGCCTCCTCCCCCAGCAAGGG
CTCGGAGCCCCGGCCCCTAGTGCCTCCTGTCTCTGGCCACGCCACCATCGCCCGCACCCCTGCGAAGAACCTCGC
ACCTCACCACGCCAGCCCGGACCCGCCGGCGCCACCTGCCTCGGCCTCGGACCCGCACCGGGAAAAGACTCAAAG
TAAACCCTTTTCCATCCAGGAACTGGAACTCCGTTCTCTGGGTTACCACGGCAGCAGCTACAGCCCCGAAGGGGT
GGAGCCCGTCAGCCCTGTGAGCTCACCCAGTCTGACCCACGACAAGGGGCTCCCCAAGCACCTGGAAGAGCTCGA
CAAGAGCCACCTGGAGGGGGAGCTGCGGCCCAAGCAGCCAGGCCCCGTGAAGCTTGGCGGGGAGGCCGCCCACCT
CCCACACCTGCGGCCGCTGCCTGAGAGCCAGCCCTCGTCCAGCCCGCTGCTCCAGACCGCCCCAGGGGTCAAAGG
TCACCAGCGGGTGGTCACCCTGGCCCAGCACATCAGTGAGGTCATCACACAGGACTACACCCGGCACCACCCACA
GCAGCTCAGCGCACCCCTGCCCGCCCCCCTCTACTCCTTCCCTGGGGCCAGCTGCCCCGTCCTGGACCTCCGCCG
CCCACCCAGTGACCTCTACCTCCCGCCCCCGGACCATGGTGCCCCGGCCCGTGGCTCCCCCCACAGCGAAGGGGG
CAAGAGGTCTCCAGAGCCAAACAAGACGTCGGTCTTGGGTGGTGGTGAGGACGGTATTGAACCTGTGTCCCCACC
GGAGGGCATGACGGAGCCAGGGCACTCCCGGAGTGCTGTGTACCCGCTGCTGTACCGGGATGGGGAACAGACGGA
GCCCAGCAGGATGGGCTCCAAGTCTCCAGGCAACACCAGCCAGCCGCCAGCCTTCTTCAGCAAGCTGACCGAGAG
CAACTCCGCCATGGTCAAGTCCAAGAAGCAAGAGATCAACAAGAAGCTGAACACCCACAACCGGAATGAGCCTGA
ATACAATATCAGCCAGCCTGGGACGGAGATCTTCAATATGCCCGCCATCACCGGAACAGGCCTTATGACCTATAG
AAGCCAGGCGGTGCAGGAACATGCCAGCACCAACATGGGGCTGGAGGCCATAATTAGAAAGGCACTCATGGGTAA
ATATGACCAGTGGGAAGAGTCCCCGCCGCTCAGCGCCAATGCTTTTAACCCTCTGAATGCCAGTGCCAGCCTGCC
CGCTGCTATGCCCCATAACCGCTGCTGACGGACGGAGTGACCACACACTCACCTCGCCAGGTGGCGGCGGGAAGGC

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FIGURE 3856C

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CAAGGTCTCTGGCAGACCCAGCAGCCGAAAAGCCAAGTCCCCGGCCCCGGGCCTGGCATCTGGGGACCGGCCACC
CTCTGTCTCCTCAGTGCACTCGGAGGGAGACTGCAACCGCCGGACGCCGCTCACCAACCGCGTGTGGGAGGACAG
GCCCTCGTCCGCAGGTTCCACGCCATTCCCCTACAACCCCCTGATCATGCGGCTGCAGGCGGGTGTCATGGCTTC
CCCACCCCCACCGGGCCTCCCCGCGGGCAGCGGGCCCCTCGCTGGCCCCCACCACGCCTGGGACGAGGAGCCCAA
GCCACTGCTCTGCTCGCAGTACGAGACACTCTCCGACAGCGAGTGACTCAGAACAGGGCGGGGGGGGGGGCGGTG
TCAGGTCCCAGCGAGCCACAGGAACGGCCCTGCAGGAGCAGGGCGGCTGCCGACTCCCCCAACCAAGGAAGGAGC
CCCTGAGTCCGCCTGCGCCTCCATCCATCTGTCCGTCCAGAGCCGGCATCCTTGCCTGTCTAAAGCCTTAACTAA
GACTCCCGCCCCGGGCTGGCCCTGTGCAGACCTTACTCAGGGGATGTTTACCTGGTGCTCGGGAAGGGAGGGGAA
GGGGCCGGGGAGGGGGCACGGCAGGCGTGTGGCAGCCACACGCAGGCGGCCAGGGCGGCCAGGGACCCAAAGCAG
GATGACCACGCACCTCCACGCCACTGCCTCCCCCGAATGCATTTGGAACCAAAGTCTAAACTGAGCTCGCAGCCC
CCGCGCCCTCCCTCCGCCTCCCATCCCGCTTAGCGCTCTGGACAGATGGACGCAGGCCCTGTCCAGCCCCCAGTG
CGCTCGTTCCGGTCCCCACAGACTGCCCCAGCCAACGAGATTGCTGGAAACCAAGTCAGGCCAGGTGGGCGGACA
AAAGGGCCAGGTGCGGCCTGGGGGGAACGGATGCTCCGAGGACTGGACTGTTTTTTTCACACATCGTTGCCGCAG
CGGTGGGAAGGAAAGGCAGATGTAAATGATGTGTTGGTTTACAGGGTATATTTTTGATACCTTCAATGAATTAAT
TCAGATGTTTTACGCAAGGAAGGACTTACCCAGTATTACTGCTGCTGTGCTTTTGATCTCTGCTTACCGTTCAAG
AGGCGTGTGCAGGCCGACAGTCGGTGACCCCATCACTCGCAGGACCAAGGGGGCGGGGACTGCTGGCTCACGCCC
CGCTGTGTCCTCCCTCCCTCCCTTCCTTGGGCAGAATGAATTCGATGCGTATTCTGTGGCCGCCATCTGCGCAGG
GTGGTGGTATTCTGTCATTTACACACGTCGTTCTAATTAAAAAGCGAATTATACTCCA
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FIGURE 3857

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TCGGACGGGCGCGGAGACGCTTCTGGAAGGAACGCCGCGATGGCTGCGCAGGGAGAGCCCCAGGTCCAGTTCAAA
CTTGTATTGGTTGGTGATGGTGGTACTGGAAAAACGACCTTCGTGAAACGTCATTTGACTGGTGAATTTGAGAAG
AAGTATGTAGCCACCTTGGGTGTTGAGGTTCATCCCCTAGTGTTCCACACCAACAGAGGACCTATTAAGTTCAAT
GTATGGGACACAGCCGGCCAGGAGAAATTCGGTGGACTGAGAGATGGCTATTATATCCAAGCCCAGTGTGCCATC
ATAATGTTTGATGTAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTACGAGTGTGT
GAAAACATCCCCATTGTGTTGTGTGGCAACAAAGTGGATATTAAGGACAGGAAAGTGAAGGCGAAATCCATTGTC
TTCCACCGAAAGAAGAATCTTCAGTACTACGACATTTCTGCCAAAAGTAACTACAACTTTGAAAAGCCCTTCCTC
TGGCTTGCTAGGAAGCTCATTGGAGACCCTAACTTGGAATTTGTTGCCATGCCTGCTCTCCCGGATGAGGATGAT
GACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAGTCTAGTTTTATAGGCAGCTGTCCTGTGATGTCAGCGGT
GCAGCGTGTGTGCCACCTCATTATTATCTA
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FIGURE 3858

MAAQGQPQVQFKLVLVGDGGTGKTTFVKHHLTGEFEKKYVATLGVEVHPLVFHTNRGPVKFNVWDTAGLEKFSGL
RDGYYIQAQSTIIVFDVTSRVTYKNVPNWHRDLV   .

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FIGURE 3859A

CTTGGAAATGACCCGCCACACCTGAAGCCTGCAGGTGCTGAGGCCACATTCGATCAGACCCAAGCTTTGGGAGAC
CGCTGGGGAAATTTCCCACTTCCTCTCCTGAGACCAGGAACTCAGCAGAGAAACTTTGTGGAAAATGAACTGAAG
GATGCCACCCAGGGAGAGTATCTCCTGAGATCCCATCATGCAGGCCTTCCCACAAGGGCCCGGCAGCATGACAAG
GTGAAGGCAGAGTATGTGCATCTCAACCATCCGCTCACCCTCGTGACCAGAGAGCGCGATTTGGCCGTGAAGGAG
AAACACCAGCTCCAAGCCAAGCTGGAGAACCTAGAACAGGTCCTGAAGCATATGCGAGAGGCGGCTGAACGGCGG
CAGCAGCTGCAGTTGGAGCATGACCAGGCCCTGGCTGTTCTCAGTGCCAAGCAGCAGGAAATTGACCTTCTGCAG
AAGTCCAAGGTTCGAGAGCTGGAAGAGAAATGCCGGACTCAAAGTGAGCAGTTCAACCTGCTGTCCCGGGACCTG
GAGAAGTTCCGGCAGCACGCTGGCAAGATTGACCTGCTGGGTGGCAGCGCGGTGGCCCCCCTGGACATCTCCACG
GCCCCCAGCAAGCCTTTCCCACAGTTCATGAATGGCCTAGCCACCTCCCTCGGCAAAGGTCAGGAGAGCGCTATT
GGAGGCAGCTCTGCGATCGGTGAATATATCCGGCCCCTTCCGCAGCCTGGTGACAGGCCGGAGCCTCTGTCCGCC
AAGCCCACCTTCCTGTCGAGATCCGGTAGCGCAAGATGCAGATCTGAGTCAGACATGGAGAATGAACGGAATTCC
AATACCTCCAAGCAGAGATACTCGGGGAAGGTCCACCTCTGTGTTGCCCGCTATAGTTACAACCCCTTCGATGGA
CCGAACGAGAACCCCGAAGCTGAGCTGCCCCTCACGGCGGGAAAATACCTCTACGTCTATGGAGACATGGATGAG
GATGGGGTTCTATGAAGGAGAGCTCCTCGATGGCCAGAGGGGTCTGGTGCCCTCCAACTTCGTGGACTTTGTGCAG
GACAACGAGTCGCGGTTGGCAAGCACGCTGGGGAACGAGCAGGATCAGAACTTCATCAACCATTCCGGCATCGGC
CTGGAGGGAGAGCACATCCTGGACCTCCACTCCCCAACCCACATAGATGCGGGCATCACCGACAACAGTGCCGGG
ACCCTGGACGTGAACATCGACGACATCGGAGAAGACATCGTGCCTTACCCTAGAAAAATCACCCTCATCAAACAA
CTCGCCAAAAGTGTTATTGTGGGCTGGGAGCCCCGGCGGTGCCACCAGGATGGGGAACGGTGAGCAGCTACAAC
GTCCTGGTGGACAAGGAGACACGCATGAACCTCACGCTGGGGAGCAGAACTAAAGCCCTCATCGAGAAGCTCAAC
ATGGCAGCCTGCACCTACCGCATCTCCGTGCAGTGCGTCACCAGCAGGGGCAGCTCGGATGAGCTGCAGTGCACG
CTGCTGGTGGGCAAGGACGTGGTGGTGGCCCCCTCCCACCTGCGGGTGGACAACATCACGCAGATCTCCGCCCAG
CTCTCCTGGCTACCCACCAACAGCAACTACAGCCACGTCATCTTCCTCAACGAGGAGGAGTTCGACATCGTCAAG
GCCGCCAGGTACAAGTACCAGTTCTTCAATCTCAGGCCCAACATGGCCTATAAGGTGAAGGTTCTGGCCAAACCC
CACCAGATGCCGTGGCAGCTCCCGCTGGAGCAAAGGGAGAAGAAGGAGGCCTTTGTGGAGTTCTCCACGTTGCCT
GCAGGACCCCCAGCACCCCCACAAGATGTTACCGTCCAGGCTGGGGTGACCCCCGCCACCATCCGGGTCTCCTGG
AGACCACCTGTGCTGACGCCCACCGGGCTGTCCAATGGCGCAAACGTTACCGGCTACGGCGTGTATGCCAAAGGG
CAGAGGGTGGCTGAAGTCATCTTCCCCACGGCAGACAGCACGGCCGTGGAGCTTGTGCGGCTGCGGAGCCTGGAG
GCCAAGGGCGTGACCGTGCGGACCCTCTCCGCCCAGGGCGAGTCCGTGGACTCTGCAGTTGCTGCCGTTCCCCCC
GAGCTCCTGGTGCCTCCTACCCCCCACCCGAGACCTGCACCCCAATCAAAGCCATTAGCAAGTTCTGGAGTCCCC
GAAACCAAAGACGAGCACCTGGGTCCCCACGCCAGGATGGATGAGGCCTGGGAGCAGAGCCGTGCACCTGGCCCT
GTGCATGGGCACATGCTGGAGCCGCCCGTGGGCCCCGGAAGGCGGTCGCCCTCACCCAGCCGCATCCTGCCACAG
CCACAGGGCACCCCGGTGTCCACCACCGTCGCCAAGGCCATGGCCCGGGAGGCCGCGCAGAGGGTGGCCGAGAGC
AGCAGGTTAGAGAAAAGGAGCGTCTTCCTAGAGAGAAGCAGCGCGGGGCAGTACGCCGCCTCAGACGAGGAGGAC
GCCTATGACTCTCCAGACTTCAAGAGGAGGGGCGCCTCGGTGGACGACTTCCTGAAAGGCTCTGAACTTGGCAAG
CAGCCGCACTGTTGCCATGGAGACGAGTACCACACAGAGAGCAGCCGGGGGTCTGACCTCTCAGACATCATGGAG
GAGGACGAGGAGGAGCTGTATTCTGAAATGCAGCTGGAAGATGGGGGAAGGAGGCGGCCCAGCGGCACGTCCCAC
AATGCCCTCAAGATTTTAGGGAACCCAGCCTCTGCAGGACGGGTGGATCACATGGGCCGGAGGTTTCCCCGTGGC
AGCGCTGGTCCTCAGAGGTCCCGGCCCGTGACAGTCCCATCCATCGACGATTACGGGCGAGACCGCCTTTCTCCA
GACTTCTATGAAGAGTCAGAAACTGACCCTGGTGCCGAAGAGCTCCCGGCCCGGATCTTTGTGGCTCTCTTTGAC
TACGACCCGCTCACCATGTCCCCAAACCCAGATGCTGCAGAGGAGGAGCTTCCCTTTAAAGAAGGCCAGATCATC
AAGGTTTATGGTGATAAAGACGCTGATGGATTCTACCGTGGGGAAACCTGTGCCCGGCTTGGCCTTATTCCTTGT
AACATGGTCTCTGAGTACAAGCAGATGATGAGGAGATGATGGATCAGCTTCTTAGACAGGGCTTTCTCCCTCTG
AATACACCTGTGGAGAAAATAGAGAGAAGCAGGAGAAGTGGCAGGCGTCATTCGGTATCGACGCGGAGAATGGTG
GCCCTGTATGACTACGACCCCAGAGAAAGCTCGCCCAACGTCGATGTCGAGGCCGAACTTACATTTTGCACAGGA
GATATTATTACAGTTTTTGGTGAAATTGATGAAGATGGATTTTATTATGGGGAGCTGAATGGGCAGAAAGGCCTT
GTGCCCTCAAACTTCTTGGAAGAAGTGCCTGATGACGTAGAAGTCTATCTTTCTGATGCTCCATCCCACTACTCT
CAAGATACGCCAATGCGCTCAAAGGCAAAAAGGAAGAAGAGTGTTCATTTCACACCTTAATCAGGCAATGTAGCC
TTCACGTAAGTGAGCAACTGAAGATACCGATAAAGATACCAACTTAAGCTACCTTAACCGGGCCAGTGTGGTAGA

4186/6881
FIGURE 3859B

CTTAAGGCTTCATTGTGGGGTTAAAAAAAAAAAAAAGATACAAAGAAATATGTCTCAAAAAACTATTGGACCTAAA
TAATTAGAATATTACTTGGTCTCAGTTGTAAAGCAACTGAATTTATAGTGAAGCAAATCATCTTTAATAATCATT
TCCTACTATTTGCATTAAGAATATTTGAAAGGCCAACATTGGGAACATATTTCTTAACAAGCTAACTGTGTGTTT
ACATAGAGAGAGCTGCATATTGCATTGTTAGCCACTCTTGGAAAAAGCACAACCTAACAAACATGTTTACTATAG
GAAGCTTTACTTTAGAAACTTAACCCAAGGTCAAGCAGATGAGTAGTGAACACAGGTGATCGAGTGTTGGCTCTG
AACACTCCAAACACTGGCTCGAGTGGCCAGAACGTGTTTTCCTTAAGTAACCCTGCCTCTACCTTACGAGAGAGC
TATGCTCCTCCTCAAAGCACAATCATCCTGTGACAGAAGTTGCTGCAACACGCGTTTGTTGTTGGTATACCAATG
CAATACTAAGTTGATGAAGCACGCAGCTCAAATGATCACATTAGATGGAATAGATGGTATCTTCAGGTGTACTTT
GGGATGCTTTACTAGGTGTTTTCCATTAGAATTAGACCTTGATTTTAAATCCAAGCAAGCTTGAAGCCCCTTGGC
TTACAGCATTTĠCCTGCTGAATACTAAACACTCACATGGCAAGAGTTGCTCTGGAGAGGTAGGGCCAGAGGAATG
CTGCTGCACTGCCAACTCAGGCACATGCTTAGCTGTAAAGGGAAGCGAGGTGAAGTCGTCCTGCAGCGTATTAGA
GTAAAAGTCTACCCCTCTGAAGCACTATTAAGCGCTTAACGTATATTTAAATACTACCATGTGCTATCTACTGAG
GAAGATTCATGTTCAATTATTTGGAAATAATGCAAGCATCCACTAAGGGCCTTTAAGCTTTCTTTGATTATAATT
AAGGTTCATTTTAGTTTTTTTTTTTCTTTCAACCAGTGTGCCATCTCCAATATTTCTATAGTATACCAACCACCC
CAGGAATGCACTTTAACAATATCAGGATTTTATATAACCAAATAGTTTCAAATACAACAAAATTCCCTTTATGAA
CTTTCGCTTTTTAAGACTACTGATGGGTACTCGGCCAACTTTACTATCAACCTAATTTCAGATCATGTCTCCCCT
GCCCTTAGTCTTCATTTATGAAGTGAATTATTACCTGCCTTAGCTTTGCCAAAGCAACGGCCACCCCGCACTCCC
TCGAGACAGAGAAACGGAACCCACACATTTATGTCTGGGGCCTCTCTCTGGCGTGCTGTGGGAGAGGACCTTTGC
TTCTCATGGCATACTTCAACAACTGAAAGAACAAATGAACCCCCCTGACCTTTCCTGGTGGGAAACGGGGACAGT
ACGATGTTACCAAGTGAATTCTGTTGTTGGCGCTCACACACTCAATAAACTGTAACACTGTACCTACTAGGTTCC
TCCTGAGGGTTCAGGTACAGCAAGGAGAGCTCCATCCCCCACAGTCCATCTCCATTCGGGGTCACCTACGTCATC
TATGGGTTCTGGTAGTCCTGGGAGAGGCAGGGAAATGTCCTCGAAAAAGAAAAAGGGGCTGCTTTCCAAAGGCAA
GAAACTGCTGAAAAAGCTGGGTGCAGTGAAATGATTCATGTGCTTCCGGACAACTGCCAAATCTATGTAATTTTC
TTTAATTCCAAACTAGGGCTTTCATGACTCAAGTACTTCCTAAAAAAACCCAATCTTCTCCCCTGACACCAGTAG
AGAAATGCACTTTTGCACTACCAACCACTTTAAACCAACCACGAGAACAAAGAGGAGCGGTTGCTCTCTGTCACC
GCTGGCAGTCTGCTCTCATTGTCCAAGCTCTGATTTGGGAGGTGGGAGGGGACGTCTTATTAACAAACGGGGGCG
CATAGCTATCACCTGTAGCTCCCTCCCTACCTGTAATTCCAGTCTTTGTGCATTGTCATCTGCCCTTAAAGGAA
TGATTTTCAACCTTTCTCCCTTCTCAAAATGCTTGCCTCATAATGCATAACTTTCACTTTGACTCTGGTCTTGAA
ATTCCTAGTTTAATTCGCCTTGATGTTCTGCCTTATAAATGCACAATGATTTGTACTGTCTAATAAAAACAGTGT
ATACTTTGTATGTGTCGTGCATTCAGTGGTCTTCATCCTGACACAGTGGTTTGAGATCAAGTTGTACAGGCTGTG
CATTTTAAGATACTAGTTTCAGTCTTTCAAAGCCAGCCAGGCTACACACAGAAAATGTTTACTCAATCATTCAAA
AAAGAGAAAAGGAGAGAAAGTAACTTTGTTTGGTAAAGCACCAGTACTCCAACCTTCCAGAAAGCCGATTATCTT
CATTGCTTTTAATGTTCTATTCTGTGGCATATGGTTTTCTGTTACTTTCGTTGTCAAAATGCCATACCCAAATAC
ACAGCAATGAATGGCACACAAGTAATCCACATAATGCATAAGCCACACCAAAACCAGACTCAATTTAAATCTGCT
CCAAATGAGTCCATACCCATCTTCATCATTGGCATTTGAACAAAAGACTTACTTACAAAGTTGCTGGCAGATGTA
TTTGATGGTTACTCTTTTGTAATTCTTGTCCACTTGTAAATTGTTTTTACTCTTTATACATACTTTTCAGACTGC
CTTTCTTTTGTAATTTATGGACGGTTTATAAATGAATGACAAAGCTTTCCCCATTGTGTCTTCAAAAACGCTATT
ATAAATTGTAATATAATAGTATGTGGTAGATTTATTATTAAAGGAAATCCATGTGTGGTTAAGCTCTGTGTGGGT
GTGTGCATGTGCACAGTTAGTGTAAAATATTTTCTAGAAATAAAATTGTTATTTTAT

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FIGURE 3860

MREAAERRQQLQLEHDQALAVLSAKQQEIDLLQKSKVRELEEKCRTQSEQFNLLSRDLEKFRQHAGKIDLLGGSA
VAPLDISTAPSKPFPQFMNGLATSLGKGQESAIGGSSAIGEYIRPLPQPGDRPEPLSAKPTFLSRSGSARCRSES
DMENERNSNTSKQRYSGKVHLCVARYSYNPFDGPNENPEAELPLTAGKYLYVYGDMDEDGFYEGELLDGQRGLVP
SNFVDFVQDNESRLASTLGNEQDQNFINHSGIGLEGEHILDLHSPTHIDAGITDNSAGTLDVNIDDIGEDIVPYP
RKITLIKQLAKSVIVGWEPPAVPPGWGTVSSYNVLVDKETRMNLTLGSRTKALIEKLNMAACTYRISVQCVTSRG
SSDELQCTLLVGKDVVVAPSHLRVDNITQISAQLSWLPTNSNYSHVIFLNEEEFDIVKAARYKYQFFNLRPNMAY
KVKVLAKPHQMPWQLPLEQREKKEAFVEFSTLPAGPPAPPQDVTVQAGVTPATIRVSWRPPVLTPTGLSNGANVT
GYGVYAKGQRVAEVIFPTADSTAVELVRLRSLEAKGVTVRTLSAQGESVDSAVAAVPPELLVPPTPHPRPAPQSK
PLASSGVPETKDEHLGPHARMDEAWEQSRAPGPVHGHMLEPPVGPGRRSPSPSRILPQPQGTPVSTTVAKAMARE
AAQRVAESSRLEKRSVFLERSSAGQYAASDEEDAYDSPDFKRRGASVDDFLKGSELGKQPHCCHGDEYHTESSRG
SDLSDIMEEDEEELYSEMQLEDGGRRRPSGTSHNALKILGNPASAGRVDHMGRRFPRGSAGPQRSRPVTVPSIDD
YGRDRLSPDFYEESETDPGAEELPARIFVALFDYDPLTMSPNPDAAEEELPFKEGQIIKVYGDKDADGFYRGETC
ARLGLIPCNMVSEIQADDEEMMDQLLRQGFLPLNTPVEKIERSRRSGRRHSVSTRRMVALYDYDPRESSPNVDVE
AELTFCTGDIITVFGEIDEDGFYYGELNGQKGLVPSNFLEEVPDDVEVYLSDAPSHYSQDTPMRSKAKRKKSVHF
TP

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FIGURE 3861

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GGCGGTGTTGAGGTTGGGTACGGGATGCGGGGTCTTTGACTGAAGGGGTAGGCCAAGTGGAGGTATCAGGGACGT
CGCGCGGCACAGAAGAGGACCAGCCTGGACGCCGGGGACGCTGTCATGTACGGCGCGAGCGGGGGCCGCGCCAAA
CCCGAGAGGAAAAGCGGCGCGAAGGAGGAGGCCGGGCCAGGCGGTGCCGGCGGTGGGGGCAGCCGAGTGGAGCTC
TTGGTTTTCGGCTATGCCTGCAAGCTGTTCCGGGACGACGAGCGGGCCCTGGCTCAGGAACAGGGACAGCACCTC
ATCCCCTGGATGGGGGACCACAAGATCCTCATCGACAGATATGATGGACGTGGTCACCTGCATGACCTTTCTGAG
TACGATGCTGAGTATTCCACGTGGAACAGAGATTATCAGCTGTCTGAAGAGGAGGCGCGAATAGAGGCCCTGTGT
GATGAAGAGAGGTATTTAGCCTTGCATACGGACTTGCTTGAGGAGGAGGCAAGGCAAGAGGAAGAATACAAGCGA
TTGAGTGAAGCACTAGCAGAGGATGGGAGCTACAATGCCGTGGGGTTCACTTACGGTAGCGACTATTACGACCCG
TCAGAGCCGACGGAGGAGGAGGAGCCTTCCAAACAGAGAGAAAAAAATGAGGCCGAAAATTTAGAGGAAAATGAA
GAGCCCTTCGTTGCCCCCTTAGGATTGAGCGTCCCGTCTGACGTGGAGTTGCCACCAACCGCTAAAATGCACGCC
ATCATCGAGCGCACGGCCAGCTTCGTGTGCAGGCAGGGAGCACAGTTTGAGATCATGCTGAAGGCCAAGCAGGCC
CGGAACTCCCAGTTTGACTTTCTGCGCTTCGACCACTACCTCAACCCCTACTATAAGTTCATCCAGAAAGCCATG
AAAGAGGGACGCTACACTGTCCTGGCAGAAAACAAAAGTGACGAGAAAAAAAATCAGGAGTCAGCTCTGACAAT
GAAGATGATGATGATGAAGAAGATGGGAATTACCTTCATCCCTCTCTCTTTGCCTCCAAGAAGTGTAACCGCCTT
GAAGAGCTGATGAAGCCCTTGAAGGTAGTGGACCCAGATCATCCCCTCGCAGCACTTGTTCGTAAGGCACAGGCT
GACAGTTCCACTCCCACCCCACACAACGCAGACGGTGCGCCTGTGCAGCCCTCCCAGGTGGAGTACACGGCAGAC
TCGACCGTGGCAGCCATGTATTACAGCTACTACATGCTACCGGACGGCACTTACTGCCTGGCGCCGCCCCTCCCG
GAATCGACGTGACTACTTACTACAGCACCCTTCCTGCTGGCGTGACCGTGTCTAACTCCCCTGGAGTGACGACCA
CCGCCCCACCACCTCCTGGGACCACACCACTACCGCCCCCAACCACAGCAGAGACTAGCAGCGGGGCCACCTCCA
CAACCACCACCACAAGTGCACTTGCCCCCGTGGCCGCCATCATCCCCCCGCCCCCCGACGTCCAGCCCGTGATTG
ACAAGCTGGCCGAGTATGTCGCCAGGAACGGCCTGAAGTTCGAGACCAGTGTTCGTGCCAAGAATGATCAAAGAT
TTGAGTTCCTGCAGCCGTGGCACCAGTATAATGCTTATTATGAGTTTAAGAAGCAGTTCTTCCTCCAGAAAGAAG
GGGGCGATAGCATGCAGGCTGTGTCTGCACCAGAAGAGGCTCCCACAGACTCTGCTCCCGAGAAGCCAAGTGATG
CTGGGGAGGATGGCGCGCCTGAAGACGCAGCCGAGGTGGGAGCACGGGCAGGCTCAGGCGGGAAGAAGGAGGCAT
CGTCCAGTAAGACCGTCCCGGACGGGAAGCTGGTGAAAGCTTCCTTTGCTCCAATAAGCTTTGCAATCAAGGCCA
AAGAAATGATCTGCTTCCCCTGGAAAAAAATCGTGTTAAGCTAGATGATGACAGTGATGATGATGAAGAAAGCA
AAGAAGGCCAAGAAAGTTCTAGTAGTGCTGCAAACACTAACCCAGCAGTTGCCCCACCCTGTGTAGTTGTTGAGG
AGAAGAAGCCTCAACTTACCCAGGAGGAGCTAGAAGCAAAGCAAGCAAAGCAAAAGCTGGAAGATCGCCTCGCAG
CTGCTGCCCGGGAAAAGCTGGCCCAGGCGTCTAAGGAGTCAAAAGAGAAACAGCTTCAAGCAGAACGTAAAAGGA
AAGCGGCGTTATTTTTACAGACCCTCAAAAATCCTCTGCCGGAAGCAGAAGCTGGGAAAATTGAGGAGAGTCCTT
TCAGTGTCGAGG
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FIGURE 3862

GTCCGCA**ATG**TTGCCAGTGTCTGTCTGCAGATTGGCTACCCAACTGTTGCATCAGTACCCCATTCTATCATCAAC
GGGTACAAACGAGTCCTGGCCTTGTCTGTGGAGACGGATTACACCTTCCCACTCGCTGAAAAGGTCAAGGCCTTC
TTGGCTGATCCATCTGCCTTTGTGGCTGCTGCCCCTGTGGCTGCTGCCACCACAGCTGCTCCTGCTGCTGCTGCA
GCCCCAGCTAAGGTTGAAGCCAAGGAAGAGTCGGAGGAGTCGGACGAGGATATGGGATTTGGTCTCTTTGACTAA
TCACCAAAAAGCAACCAACTTAGCCAGCTTTATTTGCAAAACAAGGAAA**TAA**GGCTTACTTCTTTAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3863

MLPVSVCRLATQLLHQYPILSSTGTNESWPCLWRRITPSHSLKRSRPSWLIHLPLWLLPLWLLPPQLLLLLLLQPQ
LRLKPRKSRRSRTRIWDLVSLTNHQKATNLASFICKTRK

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FIGURE 3864A

CGAAGGGGGGTGGGCCGGGGGAGGGGAGGTTCGTTCCGCGGAGCGCAGCCAGAACCGGGACCAAGAATCGCCTTC
AGCCCTGTCTGGTGCATCCTTGGCAGAAAGTGAGGAGGAAAACACCCCCATTGTTAGATGAGGTCTTAATCATGG
AACATTTGAAGTCACGTAAAGAAGGTTCTTTGGCATGGACACAAGTTCAGTGGGAGGATTAGAATTGACTGATCA
GACTCCTGTTTTATTAGGGAGTACGGCCATGGCAACTAGTCTCACGAATGTAGGAAACTCATTTAGTGGTCCAGC
TAATCCTTTAGTGTCTAGATCTAATAAGTTTCAGAACTCGTCAGTGGAAGATGATGATGATGTTGTTTTATCGA
ACCTGTACAACCTCCCCCACCTTCTGTACCAGTGGTAGCTGATCAAAGAACCATAACATTTACATCATCAAAAAA
TGAAGAACTACAAGGAAATGATTCCAAAATTACTCCTTCCTCAAAAGAGTTGGCATCTCAGAAGGGAAGTGTAAG
TGAGACAATTGTCATTGATGATGAAGAGGACATGGAAACAAATCAAGGGCAAGAGAAAAATTCCTCCAATTTTAT
TGAACGAAGACCTCCTGAGACTAAAAACAGAACCAATGATGTGGATTTCTCCACTTCCAGTTTTTCAAGAAGTAA
GGTAAATGCAGGAATGGGTAATAGTGGTATCACCACAGAACCAGACTCTGAAATTCAGATTGCTAATGTTACAAC
TTTAGAAACAGGTGTAAGCTCTGTGAATGATGGCCAATTAGAAAATACTGACGGGCGAGATATGAACTTAATGAT
TACACATGTAACATCACTGCAGAATACCAACTTGGGAGATGTCTCTAACGGACTGCAGTCAAGTAATTTTGGTGT
TAATATACAAACATACACCCCATCTTTAACTTCACAGACCAAGACTGGAGTAGGACCTTTTAATCCTGGTAGAAT
GAATGTGGCAGGAGACGTTTTTCAGAATGGAGAATCTGCAACTCATCATAATCCTGATTCTTGGATCTCCCAGTC
AGCTTCATTTCCCCGTAATCAGAAACAACCAGGGGTGGACTCTTTATCACCAGTGGCCTCACTTCCTAAACAGAT
TTTCCAGCCGTCTGTCCAACAGCAGCCTACTAAACCAGTTAAAGTCACTTGTGCAAACTGCAAAAAACCTTTACA
GAAGGGCCAGACAGCTTATCAACGAAAAGGATCAGCTCACCTCTTTTGTTCTACCACCTGCCTTTCTTCCTTCTC
CCACAAGCCTGCTCCAAAGAAACTCTGTGTTATGTGTAAAAAAGATATAACTACAATGAAAGGAACCATTGTTGC
TCAAGTGGATTCAAGTGAGTCCTTCCAGGAATTCTGTAGTACATCTTGTTTATCTCTCTATGAAGACAAACAGAA
TCCTACTAAAGGAGCTCTAAATAAATCAAGATGTACAATCTGTGGTAAACTAACTGAGATTCGCCATGAAGTCAG
CTTTAAAAATATGACTCATAAGCTGTGCAGTGACCACTGCTTTAATAGATATAGAATGGCCAATGGTTTAATAAT
GAATTGCTGTGAACAGTGTGGAGAGTACTTGCCCAGTAAAGGTGCTGGAAATAATGTTCTGGTGATTGATGGTCA
ACAGAAAAGATTTTGCTGTCAAAGTTGTGTCAGTGAATACAAACAGGTAGGTAGCCATCCAAGCTTCCTGAAGGA
GGTTCGAGATCACATGCAGGACTCTTTCTTAATGCAGCCTGAGAAATATGGAAAACTGACAACTTGTACTGGTTG
CCGAACACAGTGCAGGTTTTTTGATATGACTCAGTGTATAGGTCCTAATGGATATATGGAGCCATATTGTTCAAC
TGCTTGTATGAACAGTCACAAGACAAAAATATGCAAAATCACAAAGTTTGGGAATTATTGCCATTTTTGTAAGCG
AAACTCTTTACCTCAATACCAAGCCACAATGCCTGATGGAAAACTGTACAACTTTTGCAATTCCAGTTGTGTGGC
TAAATTTCAGGCTCTAAGTATGCAGTCATCTCCAAATGGCCAGTTTGTAGCGCCAAGTGATATTCAGTTGAAATG
CAACTACTGCAAAAAATTCCTTTTGTTCAAAACCAGAAATCCTGGAATGGGAGAACAAAGTGCATCAGTTCTGCAG
CAAAACTTGTTCAGATGACTATAAGAAGTTGCATTGCATAGTTACATATTGCGAATACTGTCAAGAGGAGAAGAC
TCTTCATGAAACAGTAAATTTCTCTGGCGTTAAGAGACCTTTCTGTAGTGAAGGCTGCAAATTATTATACAAACA
GGATTTTGCCAGACGTTTAGGATTGAGATGTGTTACTTGCAACTATTGTTCTCAGCTATGTAAGAAGGGAGCAAC
TAAAGAACTCGATGGTGTTGTGAGAGATTTCTGCAGTGAAGATTGCTGTAAAAAATTTCAGGATTGGTACTACAA
GGCTGCAAGGTGTGACTGTTGTAAATCTCAAGGAACTCTTAAAGAGCGAGTTCAGTGGCGTGGGGAAATGAAACA
TTTCTGTGATCAACATTGCTTACTGCGTTTCTACTGTCAACAAAATGAGCCCAACATGACAACTCAGAAAGGACC
TGAAAACTTACATTATGATCAGGGTTGTCAGACATCTCGAACCAAAATGACAGGTTCAGCACCACCCCCTTCTCC
AACACCTAACAAAGAGATGAAGAACAAAGCAGTTCTTTGCAAACCTTTAACAATGACAAAAGCTACTTACTGTAA
ACCTCACATGCAGACCAAATCTTGTCAGACAGATGATACTTGGAGGACAGAATATGTTCCAGTGCCTATCCCTGT
GCCTGTGTATATCCCAGTTCCTATGCACATGTACAGTCAGAATATTCCTGTTCCTACTACAGTTCCTGTTCCTGT
GCCAGTTCCTGTTTTTCTGCCTGCTCCATTGGACAGCAGTGAGAAGATTCCTGCAGCAATTGAGGAGCTAAAAAG
CAAGGTTTCTTCAGATGCTCTTGATACAGAGTTGCTTACAATGACGGATATGATGAGTGAAGACGAGGGGAAAAC
AGAGACAACCAACATCAACAGTGTAATTATTGAAACAGATATAATTGGTTCAGACCTTTTGAAGAACTCTGACCC
AGAGACACAGTCCAGCATGCCTGATGTACCATATGAACCAGATTTGGATATCGAAATAGATTTTCCCAGAGCTGC
TGAGGAGCTTGATATGGAAAATGAATTTTTATTACCACCTGTTTTTGGCGAAGAATATGAGGAACAGCCCAGACC
TCGATCTAAAAAAAAGGGAGCCAAGAGAAAGGCTGTATCAGGATACCAGTCTCATGATGATAGTTCTGACAATTC
AGAATGCAGCTTTCCTTTCAAATATACGTATGGCGTAAATGCATGGAAACACTGGGTCAAAACTAGGCAACTTGA
TGAAGATCTTCTGGTATTAGATGAGTTAAAATCTTCTAAATCAGTAAAGTTAAAAGAGGATCTACTCTCTCACAC
CACAGCTGAGCTTAACTATGGGTTAGCTCATTTTGTCAATGAGATCCGACGGCCAAATGGAGAGAATTATGCACC

FIGURE 3864B

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TGACAGCATCTATTACCTTTGCCTTGGAATACAGGAGTATTTGTGTGTGGAAGTAATCGAAAAGACAACATATTTAT
TGATCCTGGATACCAAACATTTGAGCAAGAATTGAATAAAATACTGCGAAGCTGGCAACCAAGCATACTTCCAGA
TGGGTCAATATTCTCTCGAGTTGAAGAAGACTATCTCTGGAGGATAAAACAACTAGGATCACACTCTCCAGTAGC
TCTTCTGAATACACTGTTCTACTTTAACACTAAGTATTTTGGCCTGAAAACAGTGGAACAACACTTAAGACTTTC
CTTTGGCACTGTGTTTAGGCATTGGAAAAAAAATCCTTTAACGATGGAAAACAAAGCGTGTCTTCGATACCAAGT
GTCTTCCTTGTGTGGAACAGATAATGAAGATAAAATTACTACTGGAAAAAGAAAACATGAAGATGATGAGCCAGT
ATTTGAACAAATTGAAAACACAGCCAATCCTTCCAGATGTCCTGTGAAAATGTTTGAATGCTACTTGTCTAAAAG
TCCACAGAATCTTAATCAGAGGATGGATGTTTTTTATTTGCAACCAGAATGCTCTAGTTCTACAGATAGCCCTGT
CTGGTATACGTCTACTTCACTGGACCGAAACACCTTGGAAAATATGCTTGTACGGGTTCTTCTAGTAAAAGATAT
TTATGATAAAGACAATTATGAACTGGATGAAGACACAGAC__TAA__AAAGGAACGTTGCAGAAGCAATCGGGATAAAA
CAGCATTAGATAGTCATGCTGCTAGATCTTTATTATGGAAAACATTTCAAGTTTACTCCTTCTGTTTTGAGTTTT
GTAGCAGTGTACCCACGCTGGGTATTACCATGTAAATAATCTGTGAGTGAAAGTTGCCATTATTCTATGTAGTGG
TTTTAGGATACTTAACAAATACATTCAAATTCTTTTTTTATTATTATTTATTTGATTAGGTATGTTTGTAACTTT
TTACATTACAGAATATGAATGAGAATGTGCCATGTATAATTTTTTTCTTGTAGTAAGAAACATCCATATTGCACA
ACTCTACTGTTGCAAAGCTTCCTTGGAAGGGGGCTCTTTTACTGGGTTCTTAACCAGATGGTTGTGTATGGGTAG
CACTACTAAAAGTTTAGAACTTGCAGTGTCTTTCGGAATTTTTAAAATAAACTGTAAACTAATAGGCTGGGGTTT
TTGTTTTGTTTTGGGGTTTTGTTTTGTTTGGTTTTACATTTTAGTTACTGAAGCCTTACAAGGTTATGTAGAGAG
ATACCATCTTCTGTACCAAAAATAGACAAGAGAATGCTGTCAATATTGGTGTACTGTAATGTGAATCTATGCTGG
TGAAAACAATTTTTTGTTCCCCTTATTAAAACCTTAGTGTCCTTTTCTCATTTGTGGCTTTCTGCATCACCCAAT
CAATAAAAAACAAATATATATATGT
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FIGURE 3865

MDTSSVGGLELTDQTPVLLGSTAMATSLTNVGNSFSGPANPLVSRSNKFQNSSVEDDDDVVFIEPVQPPPPSVPV
VADQRTITFTSSKNEELQGNDSKITPSSKELASQKGSVSETIVIDDEEDMETNQGQEKNSSNFIERRPPETKNRT
NDVDFSTSSFSRSKVNAGMGNSGITTEPDSEIQIANVTTLETGVSSVNDGQLENTDGRDMNLMITHVTSLQNTNL
GDVSNGLQSSNFGVNIQTYTPSLTSQTKTGVGPFNPGRMNVAGDVFQNGESATHHNPDSWISQSASFPRNQKQPG
VDSLSPVASLPKQIFQPSVQQQPTKPVKVTCANCKKPLQKGQTAYQRKGSAHLFCSTTCLSSFSHKPAPKKLCVM
CKKDITTMKGTIVAQVDSSESFQEFCSTSCLSLYEDKQNPTKGALNKSRCTICGKLTEIRHEVSFKNMTHKLCSD
HCFNRYRMANGLIMNCCEQCGEYLPSKGAGNNVLVIDGQQKRFCCQSCVSEYKQVGSHPSFLKEVRDHMQDSFLM
QPEKYGKLTTCTGCRTQCRFFDMTQCIGPNGYMEPYCSTACMNSHKTKYAKSQSLGIICHFCKRNSLPQYQATMP
DGKLYNFCNSSCVAKFQALSMQSSPNGQFVAPSDIQLKCNYCKNSFCSKPEILEWENKVHQFCSKTCSDDYKKLH
CIVTYCEYCQEEKTLHETVNFSGVKRPFCSEGCKLLYKQDFARRLGLRCVTCNYCSQLCKKGATKELDGVVRDFC
SEDCCKKFQDWYYKAARCDCCKSQGTLKERVQWRGEMKHFCDQHCLLRFYCQQNEPNMTTQKGPENLHYDQGCQT
SRTKMTGSAPPPSPTPNKEMKNKAVLCKPLTMTKATYCKPHMQTKSCQTDDTWRTEYVPVPIPVPVYIPVPMHMY
SQNIPVPTTVPVPVPVPVFLPAPLDSSEKIPAAIEELKSKVSSDALDTELLTMTDMMSEDEGKTETTNINSVIIE
TDIIGSDLLKNSDPETQSSMPDVPYEPDLDIEIDFPRAAEELDMENEFLLPPVFGEEYEEQPRPRSKKKGAKRKA
VSGYQSHDDSSDNSECSFPFKYTYGVNAWKHWVKTRQLDEDLLVLDELKSSKSVKLKEDLLSHTTAELNYGLAHF
VNEIRRPNGENYAPDSIYYLCLGIQEYLCGSNRKDNIFIDPGYQTFEQELNKILRSWQPSILPDGSIFSRVEEDY
LWRIKQLGSHSPVALLNTLFYFNTKYFGLKTVEQHLRLSFGTVFRHWKKNPLTMENKACLRYQVSSLCGTDNEDK
ITTGKRKHEDDEPVFEQIENTANPSRCPVKMFECYLSKSPQNLNQRMDVFYLQPECSSSTDSPVWYTSTSLDRNT
LENMLVRVLLVKDIYDKDNYELDEDTD

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FIGURE 3866

<u>ATG</u>GATTGGGGCACGCTGCAGACGATCCTGGGGGGTGTGAACAAACACTCCACCAGCATTGGAAAGATCTGGCTC
ACCGTCCTCTTCATTTTTCGCATTATGATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGGAGATGAGCAGGCCGAC
TTTGTCTGCAACACCCTGCAGCCAGGCTGCAAGAACGTGTGCTACGATCACTACTTCCCCATCTCCCACATCCGG
CTATGGGCCCTGCAGCTGATCTTCGTGTCCAGCCCAGCGCTCCTAGTGGCCATGCACGTGGCCTACCGGAGACAT
GAGAAGAAGAGGAAGTTCATCAAGGGGGAGATAAAGAGTGAATTTAAGGACATCGAGGAGATCAAAACCCAGAAG
GTCCGCATCGAAGGCTCCCTGTGGTGGACCTACACAAGCAGCATCTTCTTCCGGGTCATCTTCGAAGCCGCCTTC
ATGTACGTCTTCTATGTCATGTACGACGGCTTCTCCATGCAGCGGCTGGTGAAGTGCAACGCCTGGCCTTGTCCC
AACACTGTGGACTGCTTTGTGTCCCGGCCCACGGAGAAGACTGTCTTCACAGTGTTCATGATTGCAGTGTCTGGA
ATTTGCATCCTGCTGAATGTCACTGAATTGTGTTATTTGCTAATTAGATATTGTTCTGGGAAGTCAAAAAAGCCA
GTT<u>TAA</u>

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FIGURE 3867

MDWGTLQTILGGVNKHSTSIGKIWLTVLFIFRIMILVVAAKEVWGDEQADFVCNTLQPGCKNVCYDHYFPISHIR
LWALQLIFVSSPALLVAMHVAYRRHEKKRKFIKGEIKSEFKDIEEIKTQKVRIEGSLWWTYTSSIFFRVIFEAAF
MYVFYVMYDGFSMQRLVKCNAWPCPNTVDCFVSRPTEKTVFTVFMIAVSGICILLNVTELCYLLIRYCSGKSKKP
V

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FIGURE 3868

CAGAGGGGTCCATAGGGCGTTGTTCTGGATTCCGGTCGTAACTTAAAGGGAAACTTTCACAATGTCCGGAGCCCT
TGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTAGGTGGCACCAATCT
TGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAAGACCTG
GGAGAAGCTTCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTT
CTTGTGGTTACTGACCCCAGGGCTGACCCACCAGCCTCTCACGGAGGCGTCTTATGTTAACCTACCTACCATTGC
TCTGTGTAACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCGCTCAGTGG
GTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCTCGTGAACACCCATGGGAGG
TCATGACTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCGG
TGACCAAGGAGGAATTTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAG
ACTGGTCTGAAGGTGTGCAGGTGCCCTCTGTGC

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FIGURE 3869

GGGAAACTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAG
CAGGAACCCACTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCA
TCTATATCATAAATCTGAAGAAGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACC
CTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCGGCCACTGGAG
CCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGTCTTATGTTAACCTACCTACC
ATTGCTCTGTGTAACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCGCTC
AGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCTCGTGAACACCCATG
GGAGGTCATGACTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGA

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FIGURE 3870

ATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAAGACCTGGGAGAAGCTT
CTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCCTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGC
CAGAGGGCTGTGCTGAAGTTTGCTGCGGCCACTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTC
ACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTGGTTACTGACCCCAGGGCTGACCCACCAGCC
TCTCACGGAGGCGTCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAGATTCTCCTCTGCGCTATGTGGACA
TTGCCATCCCATGCAACAACAAGGGAGCTCGCTCAGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGC
GCATGCGTGGCACCATTTCTCGTGAACACCCATGGGAGGTCATGACTGATCTCTACTTCTACAGAGATCCTGAAG
AGATGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTG
TGCAGGTGCCCTCTGTGCCTATTCAGCAGTTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGACTGGT
CTGCAGCTCCC

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FIGURE 3871

MEQYIYKRKSDGIYIINLKKTWEKLLLAARAIVAIENPADVSVISSRNTGQRAVLKFAAATGATPIAGRFTPGTF
TNQIQAAFREPRLLVVTDPRADPPASHGGVLC

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FIGURE 3872

GCGGCAGGTGAGTAGCTGTGCGAATTCGGTTCTCTAGGGAACTCCTTCTTCGCCTGCTGGCCTTACCTGGGCTCC
CCGCTTCTCTGGAGGGGAGGCGGTGCGGGAACTCCCGTAGGCGTGAGCTGGAGCGCGCGCCCGCTGCTCTCTCCA
GGTCCCGCCGCGCCAGTTCGCCTCCGCAAAGCCCGTCCCTCTCTTCCGCAGGCACC**ATG**TTCCTGACTGCGCTCC
TCTGGCGCGGCCGCATTCCCGGCCGTCAGTGGATCGGGAAGCACCGGCGGCCGCGGTTCGTGTCGTTGCGCGCCA
AGCAGAACATGATCCGCCGCCTGGAGATCGAGGCGGAGAACCATTACTGGCTGAGCATGCCCTACATGACCCGGG
AGCAGGAGCGCGGCCACGCCGCGGTGCGCAGGAGGGAGGCCTTCGAGGCCATAAAGGCGGCCGCCACTTCCAAGT
TCCCCCCGCATAGATTCATTGCGGACCAGCTCGACCATCTCAATGTCACCAAGAAATGGTCC**TAA**TCCTGAGTCG
TCACCCTTGGATTTTATGGATCACGGAGCTGACCATCTTTACCTGGTCCTGGAACTGAAAAACTGTAGCTTGTGT
GAAAATGAGCCTTTGGACCAGTCTTTATTAAAACAAACAAACATGAGTAGTCTGCATATCGAATATCTAGAGCTC
TAAACCCCCCAATACTTAAAAGTCTAATTGCTGTCCTGTGGTTTCATTAGTCTGATAGGAAGATAGGGATTTCCT
CAGTCACAGATGATATTTTGAAGGAAAGCTGCAATAAAGCCACAATGATTTGAGGTCTTTGCTTAAGTATGAGAT
ACTTGATGGGGGCTTTATCATGCAACATTAGTTTGCTTACCTTAAGAATTGCCCAAAAATGAAAGAAAATATGAG
CTTTTCAGTTAAACATACTCCTAAAAACATTTTCCGGGATTTTACTACTAAAATTGGACATTTAAGCGAAGTAAA
AGAGGCCGGGTGCGGTGGCTCACGCCTGTAATCCCAACACTTTAGGAGTCCAAGGCGGGCGGATCACTTGAGGTC
AGGAGTTCAAGACCAGCTTGGCCAAGGTGATAAAACCCGTCTCTACTAATACAAAAAAAATTAGCTGGGTATGTT
GGTGCAGGCTTGCAATCCCAGCTACTTGGGACGCTGAGGTGGGAGGATCGCCTGAACCTCAGAGGCAGAGGTTGC
AATGAAGCGGAGGTTGCAGTGAGCCGAGAGCATGCCGCTGCACTCCAGCCTGGGAGACTGCATCTCAAAAAAGAA
AAATAAACGAAGTAAAAGATATTTATCAGAAAAAAAAAAA

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FIGURE 3873

MFLTALLWRGRIPGRQWIGKHRRPRFVSLRAKQNMIRRLEIEAENHYWLSMPYMTREQERGHAAVRRREAFEAIK
AAATSKFPPHRFIADQLDHLNVTKKWS

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FIGURE 3874

CTCTTCCTAAGCCGGCGCTCGGCGAGTTCTCCCAGGAGAAGGCC**ATG**TTCAGTTCGAGCGCCAAGATCGTGAAGC
CCAATGATGAGAAGCCGGACGAGTTCGAGTCCGGCATCTCCCAGGCTCTTCTGGAGCTGGAGATGAACTCGGACC
TCAAAGCTCAGCTCAGGGAGCTGAATATTACGGCAGCCAAGGAAATTGAACTTGGTGGTGGTCGGAAAGCTATCA
TAATCTTTGTTCCCATTCCTCAACTGAAATCTTTCCAGAAAATTCAAGTCCGGCTAGTACGCGAATTGGAGAAAA
AGTTCAGTGGGAAGCATGTCGTCTTTATCGTTCAGAGAAGAATTCTGCCTAAGCCAACTCGAAAAAGCCGTACAA
AAAATAAGCAAAAGCGTCCCAGGAGCCATACTCTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCC
CAAGCGAAATTGTGGGCAAGAGAATCCGCGTGAAACTAGATGGCAGCCGGCTCATAAAGGTTCATTTGGACAAAG
CACAGCAGAACAATGTGGAACACAAGGTTGAAACTTTTTCTGGTGTCTATAAGAAGCTCACGGGCAAGGATGTTA
ATTTTGAATTCCCAGAGTTTCAATTACAAACAAAAATGACTACATAAAAATATATATTCACA

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FIGURE 3875

MFSSSAKIVKPNDEKPDEFESGISQALLELEMNSDLKAQLRELNITAAKEIELGGGRKAIIIFVPIPQLKSFQKI
QVRLVRELEKKFSGKHVVFIVQRRILPKPTRKSRTKNKQKRPRSHTLTAVHDAILEDLVFPSEIVGKRIRVKLDG
SRLIKVHLDKAQQNNVEHKVETFSGVYKKLTGKDVNFEFPEFQL

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FIGURE 3876

GCCTGCGGGCAGCCGTGCCGAGAATGAACCCCAGCACCCCCAGCTACCCAACGGCCTCGCTCTACGTGGGGGACC
TCCACCCCGACGTGACTGAGGCGATGCTCTACGAGAAGTTCAGCCCGGCAGGGCCCATCCTCTCCATCCGGATCT
GCAGGGACTTGATCACCAGCGGCTCCTCCAACTACGCGTATGTGAACTTCCAGCATACGAAGGACGCGGAGCATG
CTCTGGACACCATGAATTTTGATGTTATAAAGGGCAAGCCAGTACGCATCATGTGGTCTCAGCGTGATCCATCAC
TTCGAAAAAGTGGAGTGGGCAACATATTCGTTAAAAATCTGGATAAGTCCATTAATAATAAAGCACTGTATGATA
CAGTTTCTGCTTTTGGTAACATCCTTTCGTGTAACGTGGTTTGTGATGAAAATGGTTCCAAGGGTTATGGATTTG
TACACTTTGAGACACACGAAGCAGCTGAAAGAGCTATTAAAAAAATGAACGGAATGCTCCTAAATGGTCGCAAAG
TATTTGTTGGACAATTTAAGTCTCGTAAAGAACGAGAAGCTGAACTTGGAGCTAGGGCAAAAGAGTTCCCCAATG
TTTACATCAAGAATTTTGGAGAAGACATGGATGATGAGCGCCTTAAGGATCTCTTTGGCAAGTTCGGGCCCGCCT
TAAGTGTGAAAGTAATGACCGATGAAAGTGGAAAATCCAAAGGATTTGGATTTGTAAGCTTTGAAAGGCATGAAG
ATGCACAGAAAGCTGTAGATGAGATGAATGGAAAGGAGCTCAATGGAAAACAAATTTACGTTGGTCGAGCTCAGA
AAAAAGTGGAACGGCAGACGGAACTTAAGCGCACATTTGAACAGATGAAGCAAGATAGGATCACCAGATACCAGG
TTGTTAATCTTTATGTGAAAAATCTTGATGATGGTATTGATGATGAACGTCTCCGGAAAGCGTTTTCTCCATTTG
GTACAATCACTAGTGCAAAGGTTATGATGGAAGGTGGTCGCAGCAAAGGGTTTGGTTTTGTATGTTTCTCCTCCC
CAGAAGAAGCCACTAAAGCAGTTACAGAAATGAACGGTAGAATTGTGGCCACAAAGCCATTGTATGTAGCTTTAG
CTCAGCGCAAAGAAGAGCGCCAGGCTTACCTCACTAACGAGTATATGCAGAGAATGGCAAGTGTACGAGCTGTGC
CCAACCAGCGAGCACCTCCTTCAGGTTACTTCATGACAGCTGTCCCACAGACTCAGAACCATGCTGCATACTATC
CTCCTAGCCAAATTGCTCGACTAAGACCAAGTCCTCGCTGGACTGCTCAGGGTGCCAGACCTCATCCATTCCAAA
ATAAGCCCAGTGCTATCCGCCCAGGTGCTCCTAGAGTACCATTTAGTACTATGAGACCAGCTTCTTCACAGGTTC
CACGAGTCATGTCAACGCAGCGTGTTGCTAACACATCAACACAGACAGTGGGTCCACGTCCTGCAGCTGCTGCTG
CTGCTGCAGCTACCCCTGCTGTGCGCACGGTTCCACGGTATAAATATGCTGCGGGAGTTCGCAATCCTCAGCAAC
ATCGTAATGCACAGCCACAAGTTACAATGCAACAGCTTGCTGTTCATGTACAAGGTCAGGAAACTTTGACTGCCT
CCAGGTTGGCATCTGCCCCTCCTCAAAAGCAAAAGCAAATGTTAGGTGAACGGCTCTTTCCTCTTATTCAAGCCA
TGCACCCTACTCTTGCTGGGAAAATCACTGGCATGTTGTTGGAGATTGATAATTCAGAACTTCTTTATATGCTCG
AGTCTCCAGAGTCACTCCGTTCTAAGGTTGATGAAGCTGTAGCTGTACTACAAGCCCACCAAGCTAAAGAGGCTA
CCCAGAAAGCAGTTAACAGTGCTACCGGTGTTCCAACTGTTTAAAATTGATCAGAGACCACGAAAAGAAATTTGT
GCTTCACCGAAGAAAAATATCTAAACATCGAGAAACTATGGGAAAAAAAATTGCAAAATCTAAAATAAAAAATGC
AAAATCTAAAATAAAAAATGGAAAGGAAACTTTGAACCTTATGTACCGAGCAAATGCAAGGTCTAGCAAATATAA
TGCTAGTCCTAGATTACTTATTGATTTAAAAACAAAAAAAGATTACTTAATTTTGATTTAAAAACAAAAAATCG
TAAAATACAAAAACCAGTTAATGTTTTGTAGACCCTGGGAAAAGAATTTTCAGCAAAGTACAAAAATTTAAAGCA
TTCCTTTAATTTTTTAATTCTTTACTGTGGAATAGCTCAAAATGTCCATTCTGTTTTAAGTAACAGAATTGATAA
CTGAGCAAGGAAACATGGTTTGGATTATAAAATTCTTGCTTTAATAAAAATTTCTTAAACAGTGAAA

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FIGURE 3877

CTCAGAACCATGCTGCATACTATCCTCCTAGCCAAATTGCTCGACTAAGACCAAGTCCTCGCTGGACTGCTCAGG
GTGCCAGACCTCATCCATTCCAAAATAAGCCCAGTGCTATCCGCCCAGGTGCTCCTAGAGTACCATTTAGTACTA
TGAGACCAGCTTCTTCACAGGTTCCACGGTATAAATATGCTGCGGGAGTTCGCAATCCTCAGCAACATCGTAATG
CACAGCCACAAGTTACAATGCAACAGCTTGCTGTTCATGTACAAGGTCAGGAAACTTTGACTGCCTCCAGGTTGG
CATCTGCCCCTCCTCAAAAGCAAAAGCAAATGTTAGGTGAACGGCTCTTTCCTCTTATTCAAGCCATGCACCCTA
CTCTTGCTGGGAAAATCACTGGCATGTTGTTGGAGATTGATAATTCAGAACTTCTTTATATGCTCGAGTCTCCAG
AGTCACTCCGTTCTAAGGTTGATGAAGCTGTAGCTGTACTACAAGCCCACCAAGCTAAAGAGGCTACCCAGAAAG
CAGTTAACAGTGCTACCGGTGTTCCAACTGTTTAAAATTGATCAGAGACCACGAAAAGAAATTTGTGCTTCACCG
AAGAAAAATATCTAAACATCGAGAAACT

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FIGURE 3878A

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GCCTTCGCCGCCGTTGGGGCTGGAAGTTCCCGCCAGGTCCGTGCCGGGCGAGAGAGATGCTGCCCGGCCCGCCTC
GGCTTTGAGGCGAGAGAAGTGTCCCAGACCCATTTCGCCTTGCTGACGGCGTCGAGCCCTGGCCAGACATGTCCA
CAGGGTTCTCCTTCGGGTCCGGGACTCTGGGCTCCACCACCGTGGCCGCCGGCGGGACCAGCACAGGCGGCGTTT
TCTCCTTCGGAACGGGAGCGTCTAGCAACCCTTCTGTGGGGCTCAATTTTGGAAATCTTGGAAGTACTTCAACTC
CAGCAACTACATCTGCTCCTTCAAGTGGTTTTGGAACCGGGCTCTTTGGATCTAAACCTGCCACTGGGTTCACTC
TAGGAGGAACAAATACAGGAATAGCAACAACTATAACTACAGGATTAACTCTGGGAACGCCAGCCACTACATCTG
CAGCTACAACAGGCTTCAGTTTAGGATTCAATAAACCTGCAGCATCGCCACACCATTGCTCTACCTATTACCT
CTACCTCAGCTAGCGGTCTGACTCTTTCGTCTGCTCTGACATCAACTCCAGCAGCATCCACAGGATTTACTCTAA
ATAATTTGGGTGGGACAACAGCCACAACTACAACTGCATCAACAGGCCTCTCTTTAGGGGGAGCCTTAGCTGGTT
TGGGAGGTTCACTTTTCCAGAGTACAAACACAGGAACATCAGGACTTGGACAGAATGCTTTAGGGTTGACTTTGG
GAACTACAGCAGCTACTTCAACTGCAGGCAATGAAGGCCTTGGTGGTATAGATTTCAGTAGCTCCTCAGATAAAA
AGAGTGATAAAACGGGAACAAGACCAGAGGATAGTAAAGCTCTGAAGGATGAAAATCTACCTCCTGTCATCTGCC
AGGATGTTGAAAATCTCCAGAAATTTGTGAAGGAGCAGAAACAAGTTCAAGAAGAAATTAGTAGAATGTCTTCAA
AAGCAATGCTTAAGGTACAAGAAGATATTAAAGCTCTGAAGCAGCTCCTGTCGTTGGCTGCCAATGGAATACAGA
GAAACACTCTCAACATTGACAAATTGAAAATAGAAACTGCTCAGGAGTTGAAGAATGCTGAAATAGCTTTAAGAA
CCCAGAAGACACCACCTGGACTTCAACATGAATATGCAGCTCCTGCTGACTACTTCAGAATCTTGGTTCAGCAAT
TTGAGGTACAGCTTCAGCAGTACAGGCAGCAGATTGAAGAACTAGAAAACCATCTTGCCACTCAAGCAAATAATT
CACATATAACCCCTCAAGATTTGTCAATGGCTATGCAGAAAATTTATCAAACATTTGTAGCTTTAGCGGCACAAC
TTCAGTCTATTCATGAAAATGTAAAGGTTCTGAAAGAACAGTACCTTGGCTACAGGAAAATGTTCTTGGGAGATG
CTGTTGATGTGTTTGAAACAAGGCGAGCAGAAGCCAAGAAGTGGCAGAACACACCCAGAGTTACTACTGGACCCA
CTCCTTTCAGCACCATGCCAAACGCAGCAGCCGTTGCCATGGCTGCAACACTTACACAGCAGCAACAGCCTGCTA
CAGGTCTGAACGCATTCAAGTTATAGCTTCTTACTGTTCCAATGCAGAACATTTATGTGCGTTTTTATAAGTCTT
CCATTTGTGTGAGCACTGAAGAAATTTCTATGAGTAGCTGTTCCAATACAATCTAAAATTGTGATGGACACGATT
ATAAACATACCTGATAAAAAAGGCAGGGTAGTCTTAGCAATAATTATACATCAATTAGATATTGAATATTGTGAA
TCTACTTAATGTTATTTGCTGTAATGCTATAAATGCCCTTTAGAACATGGTGTTTCACTAGTGAATTACATTTAA
GAATAACATTAGATTCTGAAATCATGACTGTACCATTTATTGTTTTAAAGTCAGAGATCATCCATCCATTCTTTG
AATTTTTCATATATGACTGATAGGTGGTGCATTCTCATTTTCCTCATACATAGTGATTACAAAGTACCCACAT
TCAGGATGAAGTATGCTTTTATTGACTGAAGGTATGTTGAAGATCAATAGGCTTGTTTGTATGTATGTTGACTGT
AAACAGAATACAAGCCCTCTAAACCAAATTTTGAAGATGATACATGCTAGAATTGTACCTTTCCAAGGTGAACAG
AACAGCAAGAGCAGGAAAAAGATGTTTTGAGATGTGGATTGCACATTAAGGAGCAACTGGGAAGTTGAACAGATG
AAAATAATTGGTGACATGGAAAGCAGATTGTTTTATTTCTTGGTTTAGTTACACTTCTAATTAGAGAAACATTTT
TTGTGGTCATTCTACAGTGTTTTATTTGGTCCTGTGTCTTTCGGAGGTTAATAGTTATCTTAATCCTGCCATCCC
TTTTGTCAGGTTTGAAGCTTGACATGGAAAAATAGTCTTAATCGATATTGATTTTTTTATTTTAATCATTCATAA
ATTTCTTAGTAATGCTTACTATTCAATAGCATGTGTCTTTCTGAGAGTTCCATATAGTCCAGTAGTACATTATAA
TACACACAAATTAATACATATTTAGATTGCATTCAAGCTACCTATACTAGGGAAGCATTCTCTGGTTTTCACTAT
TGGCAGTTTAAAAAATTGTTCTTCACATTTGGAGATGACAGAATTGACTTGCCATAAGTAAAGGGTTGATGATAG
ATTTATGCCAAATCCTCCATATCCCGTGGCTGGACCCATGTGAATAGTGGCTCGCACGAGCACTGTCTGGTAGCT
CTCTAGCTGGCTGGAGTGTAGGATTGCGTTGTTAAGTTATGGAGGGAAAAAGTCATTATGGGATTGATTCCTTTG
AGGATTGATATTTCTTCTTAAAAGGATTCAATCCCATAATTATGACCATCAGCTCTCATGATTACCTAACCAGTT
AATCAAACCAACCATAGTACTAGTTTACTTTTTAGAGCCAGTATTAATCCTAAAGTAGATAAGTGTAGATTTGGT
TAAGTGTTCTTTAAACATAGTGAATTTCCATTCTATTAAATAGAACTTGAGAAATGTCAGTTATATAAAAAGTTA
TGTTGTAAGTGAATATATTCTATGATAAATACCTAAACTTGAAGCAAAATCTCCTGTCAAGGGTTTGTGTGTGTG
TGTGTGTTTAACTTTCTTATCTATAGATTATTATTTTGAGAAATTCATAGGTTTTCACTTATACATTTTGAGCTT
GTGGACATATGGAGATGTGTGTTCATTCTCTAAATGAGTGCCTACTATGTGCTGGGCTCGAGGAATACAAAGGTA
GACAATATAGATTTTGTCTTTGCCCTCTGTGGTGGTTGACAATGTTAGCTTAATCTGGAGTATTCTTGAGGAGCC
TTTTGCTCATAGGCTTTAATTTTGTCTGTGACTTTTGCCAGGCTTTGGGGAAATTGACTGCCTTCACTCTTCCCT
GAAACTTTGAAGTCCACATAAGGGCTTTCTCATCAGATGGCAGAAATTATAATTTATTAACCTAAACAACCTTAC
AGTGTTTTCGCTTTGAATTGTATGAATTCTTAGAACTGAGAAGCTAAACAACAGTGATAACAATTTTACATTATC
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FIGURE 3878B

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TTTTCTTTCTCCTTTTGTTTCTCTAAAGGTCTCCCAGGCCTTCCCAGTCAAAATTTTCGTTATTTTTAGTCATGT
CACCATGATGTGAGATTCTGAGCTCTGTTAGATACATTTAGAAATGTCCCTATTTATCAAATGGTGTTTTGTAC
CCCATAAGTTATCCCTTATGCCCTGTGACTTCTGTGAAATCTTTGTTTTTAAGTGCCAGTAACAAATTTTAGACC
ATCTAGATGAGGGTAGAGAGAGCTTATGCATTGTTTTTATACATCACTGTTGATCTATACAAGATTTGAGTTATC
AGAAGGGTTTTGCTTTTATTTGCATATGAAATTTTTATTAACATGAATATGGGCACAGAGCAAATAGCTTCTTAG
ACTGCTGCCTTCTGAAGGTGGCTTCTGTATCTTTCTCAGAGGAGGAGGAATAGACTTAAACGACTTCTTTGTCCT
CCTTCAATTTTTTTTTTAATGAAAAAGTATACTAGGGCTTAGGCATGTGTGATTTACAGTTATTTGTTCTGAAGG
CTGCAGAGAATTGAAAATCCAGCAGGCTATTTGTGTATGAAATCATGAGCATCGATAACGTGGATAACGTAGTTC
CATGTTGGCAGAACTTGACACTTGTCTATAAGTGCTTCCCAAGCCTCCTGAAAAACTGAAGACATTACATTAGG
CTTTTCAGTATAATTTTAATTTAGGATAGGTTTTTTAGCAATGTATCTGGGATTGAGTTTTGCTATTGTGTTTTG
ACACTTTAAGAGTTCTTGATGTTTACATAATAAGACTTTCTTATGTGACTTAGCTGCTGTTTTAAGGAGAGCCAA
GACGTTTGTTAGGAATTCCTAATTTTTAGCTTAGTGTAGGTTTGGACATTTAAGGTGTAGTGTTAAATAGGAAA
CATTAAGTATTTCATCTTAGTTTCTTGTGGTTTTGTGATTTTGTTGTATTTAATAACCAAAGGAACATTCCCCAT
TAAATCAGTAAGAGTAAAATTTTTCAAACTGGGGAAAACGCATTTTAGGTTTTTTAAAGAAAAATTATTTTAAAA
TGTGACTTAGAAATAACCATACTAATTACATTAGGCATTTGGGGTGATCATGGAAAATTATAAAATATTTTTAGC
ACTTTAGTCCTTTTTCTGTTAATGCAGTTTTACTTTTAAGAAAGTAAAATTTATTCTGGAAAATATGAATTACAG
CGCTAAACCTGGTTTTGTTGTGTGTGAATATATTATATGGTAACTTTTGTAAAATGTTACTCTACATGAAGATTT
CACTTTGGCCAGTCATTGGTATATATCACTACAAACTTAATTTTATTTATGGAAATAAGAACCTCTCATTGGATG
ACTATTCAAATTTCAAAGCAGACTTCTTGAATTGTTTACGTAACTTTTGCCTGAAGGATTTAGACTGCTTCTAA
TAGTGAAACTAATATATATGGTGGCCAGAGTGTAATATATGCTAATACTTTGGCATGGGAGATATTTATCATGAG
TTTTTACTATTAAAAAATGTTATACATTTGCCTACGAGTTTTATAAATGATGTTGCCTTCAGAATTTGTGTGAAG
GTACAAAACTAAAAATATCATGTATCTGATGTGCAATGGAAAGTCTTGTCATCATTAGATATGAGTTCTTGATTA
TATTCTGAATATTGATGATTAGAAAAATCTTATGTTCTGTCGCTCTTAACAACAGACCCACACACAACAAAAAGC
ATGCTATTTGAGTAACTCTTACGACTTACAAGGCTGAGGGCTGTGGTGTGCATTATTCTTTAGGGTCTTCCACCA
GCAGTGCCTCCTATTAACCTGTGACAAACAAGTCTCTCAATGTTAAAGAACTGGACATGTGTTTTTTATGTTTTT
TGTTAGGAATCAGAAAGTATAATAATATGCTTGGTTTCTTTTTCCTATAGTAACATTTTACAAAAGAGCTGCTAG
GCAGGTATTTTATTCTCAAAGTGATCTCAAACTGGATGTAAAATTTTAAATTATTTTTTTAATAGTAGTATAAGA
ATTCTGGCTGCTATTAGTTATTGTTTGTTTTCTGGGTTAGAAGCTATTCGAAAAGTCCAGTTCTGTCCCAGTGT
AGCAAAATGTAGTTCCTCGGTTGTTTTTCTTTAAATGCTTTATAATTTTACACTACCTTTTTAATATACAAACCT
CATTCTTCATTGGATAACTTGAAGGCTTTGATTTCTTTAAAAATTTAAATTTTAGTGTGTATATTACTTTGACAG
TTCCCTCATCTTTGAGATGCACTGATCACTGTGCTTGAAAAAGACAATACTGAAGATTGTACTATGAAGTTTATT
GAATAATTTTCATAAATTATTTATCCAAATGAGAGATTTTTAGATTTTTGTATTCTGCTTAGTTTTAAAAAAAAA
AAATAGTAGTTTAAAAGAGAGGCTAGTAAGTTGATGCTATTCTTGCCAAACAAACTCAGCCAAAATCTTTAAAG
TAACAAGAGGGAAAAGGATGACTAATCGTTCTGCTTCTGAGTACATTTTCCAAAACGTTGGAAAGAAACTTCTGA
ATTGAAATCTTGAATGTATTGAATCTGTCAAGGTACACAGCGGTGCCTTTGTAAATGTTCATTACTTTATTTAAT
CAGGTGATAAGTGGTGTAATGTAGCAGAGCTTAAGAATAGAACTCAATTATCACTTTTTGTGAACAAGTTGGAAT
TGTCATGTTACTGTGTAATTGATTTGCTTTACAATGAACAATAAATTTAATAAAAT
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FIGURE 3879

MSTGFSFGSGTLGSTTVAAGGTSTGGVFSFGTGASSNPSVGLNFGNLGSTSTPATTSAPSSGFGTGLFGSKPATG
FTLGGTNTGIATTITTGLTLGTPATTSAATTGFSLGFNKPAASATPFALPITSTSASGLTLSSALTSTPAASTGF
TLNNLGGTTATTTTASTGLSLGGALAGLGGSLFQSTNTGTSGLGQNALGLTLGTTAATSTAGNEGLGGIDFSSSS
DKKSDKTGTRPEDSKALKDENLPPVICQDVENLQKFVKEQKQVQEEISRMSSKAMLKVQEDIKALKQLLSLAANG
IQRNTLNIDKLKIETAQELKNAEIALRTQKTPPGLQHEYAAPADYFRILVQQFEVQLQQYRQQIEELENHLATQA
NNSHITPQDLSMAMQKIYQTFVALAAQLQSIHENVKVLKEQYLGYRKMFLGDAVDVFETRRAEAKKWQNTPRVTT
GPTPFSTMPNAAAVAMAATLTQQQQPATGLNAFKL

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FIGURE 3880

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ATGGCTGTTGGCAAGAACAAACGCCTTACGAAAGGAGGCAAAAAGGGAGCCAAGAAGAAAGTGGTTGATCCATTT
TCTAAGAAAGAGTGGTATGATGTGAAAGCACCTTCTGTGTTCAATATAAGGAATATTGGAAAGATGCTAGTCACC
AGGACCCAAGGAAACAAAATTGCATCTGATGGCCTCAAGGGTCATGTGTTTGAACACCAACAGGTCCGCCAAATC
CGGAAGAATATGATGGAAATCAAGACCCGGGAGGTGCAGAAAAATGACTTGAAAGAAGTGGTCAATAAATTGATT
CCAGACAGCATTGGAAAAGACATAGAAAAGACTTGCCAATCCATTTATCCTCTCCATGATGTCTTCGTTAGAAAA
GTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAACTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGA
AAAGCCACTGGGAGCAAGACAGGTGCTAAAGTTGAATGA
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FIGURE 3881A

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GCGGCCGCGGCGCGGCGGGACCATGGAGCTCAGAGCGCAGCCCCGGCGCCGGCGGCGGGACCGCGGACCGTTTTA
GTTTTGATTGCTGTTAACTACTACTGATAACTGAGCCAAAGTGGTGATGCTACTTGAGGGGAATTTCTGCAACCC
ATAGTCAACGATTACATGATTGTGAACCATGCCTTTAGTGAAGAGGAACATTGAGCCCCGGCACTTGTGCCGGGG
AGCTCTGCCTGAAGGGATTACCAGCGAACTTGAATGTGTAACCAATAGTACTCTTGCCGCTATCATACGCCAGCT
GAGCAGTCTGAGCAAACATGCTGAAGACATATTTGGTGAGTTGTTTAATGAGGCTAACAACTTCTACATCAGAGC
AAATTCTCTTCAAGACAGAATTGATCGCCTTGCTGTCAAAGTCACCCAGCTGGATTCAACAGTGGAAGAGGTCTC
ACTACAGGATATCAACATGAAAAAAGCTTTCAAAAGTTCCACAGTCCAAGACCAGCAAGTGGTTTCAAAGAACAG
CATTCCTAATCCTGTTGCTGATATTTACAACCAGAGTGATAAGCCACCGCCTCTGAACATCCTGACACCATACAG
AGATGACAAGAAGGATGGGCTGAAGTTCTATACTGATCCTTCCTATTTCTTTGACCTCTGGAAAGAAAAAATGCT
ACAGGACACAGAAGACAAAAGGAAAGAGAAAAGGCGTCAAAAGGAGCAAAAGCGTATAGATGGCACCACCCGTGA
GGTGAAAAAGGTTAGAAAAGCCAGAAACAGGCGCCAGGAGTGGAATATGATGGCATATGACAAAGAGCTTAGACC
CGACAACAGGTTGTCTCAGAGTGTGTACCATGGAGCGTCTTCCGAGGGATCCCTGTCCCCAGATACTAGGTCACA
TGCATCGGACGTTACGGATTACTCTTACCCGGCTACTCCCAACCATTCTCTGCACCCCCAGCCTGTGACCCCTTC
CTATGCAGCTGGTGACGTGCCACCACACGGGCCTGCAAGCCAGGCTGCGGAGCATGAGTACCGGCCCCCATCTGC
CTCGGCGAGGCACATGGCCCTCAACAGACCTCAGCAGCCGCCCCCCCCGCCTCCCCCTCAGGCCCCAGAGGGGTC
CCAGGCCTCTGCACCGATGGCTCCAGCAGACTACGGGATGCTCCCAGCGCAGATAATTGAGTATTACAACCCATC
CGGACCACCTCCTCCGCCACCTCCTCCTGTGATTCCCTCAGCACAAACTGCCTTCGTCAGCCCTCTCCAGATGCC
CATGCAGCCCCGTTCCCTGCATCAGCCAGCTCCACGCACGCAGCTCCTCCTCACCCACCCTCCACCGGGCTCCT
GGTCACAGCCCCGCCACCCCCGGGCCCACCACCTCCCCCGCCAGGCCCTCCTGGTCCCGGGTCTTCTCTTTCGTC
CTCCCCAATGCATGGCCCCCCAGTAGCTGAGGCGAAGCGGCAAGAGCCTGCACAGCCACCAATCAGTGATGCTCG
AAGCGACCTCCTCGCTGCTATTCGAATGGGAATTCAACTGAAAAAGGTGCAGGAGCAGCGGGAGCAGGAGGCCAA
GCGGGAGCCAGTGGGGAATGACGTGGCCACGATCCTGTCCCGGCGCATTGCCGTGGAGTACAGCGACTCTGACGA
CGACTCAGAGTTCGACGAGAACGACTGGTCCGACTGAGCAAAGGCCGGCGGAGAGGCCGCGTGTGGGAGCGTGTT
GAAGATTTTAAGTGGTCTCTACACCCAAATAGTGGTATTCTAATCCCGTAGCATAGCACCTTTTGTATAAACAAT
GTGATATTGCTTCTGCACATCCAAAAATTCTGGGTCTTTTCAGTATTTACTGTGTAATACTTAAGTGCCACTAAA
CATAGCAAATTGTGCTGCACATGAGGAAATAGGCTGTCACTATCACATTGTCCTGAAAACAGCATCTGCTTTCCT
CTTGGCCATGAGAGTATTTAGTGCAGTTTGGGTTTACTCTTACTGATCAATATAACTCTGCAGACTTGCTGTGTG
TTTGTGAAGCTGCCTGGTGTTAGGTCTCTGCAAGACTAATGACTATGTCAGAGTGATGTCTTCCAACCAGTAAGT
GATATTGTTTCACCGCTTTGGTTTTTCCTTTTGTTTTTTTAAAGGATGTGTTTCTGAATAAGTTGGTTTTAGAGG
GAAAGGTTCAACAAACAGGGAGAATCCAGTGTTTCTGCTTTCAGTTTCTTGGCTTGGTAGCCTCTGAGTGAATCT
GATGCTCTGCTGAATAATTTCATTACCTCTGCACATGCCTGTCAAATATGAAATTGGAAGGGCCCTTTTCAGGCT
GGGTTCCCTGTGGGCATTTGCTTAGTAAATGCCTGTTGATGGTTTTTGCAAGAGAATTCAGCAGCTCAACAGTAA
TGAAAGTGAAGAACAGAGTCCATTTTCCTTCCTGGGGCCATTGGGGATGACACTCAAGATACTTGCCAGTCTCTC
CAGTGTGGGCACCAGCCGGCCAGAACAGATGCGAGCAGTCCATGACTCTGGGAGCTACACCGCTGAGCTGGGCAG
AGCTGCGGCACAGGGCCTGGGCTGCAAAGGAGCCCTGCTCCTTTAGTTTCCTGACACCTGTGTCCTGAGTGAGCC
GCAGGAGTTCTTAGCTCCTCAGCGAGCAACAGAGAGCACTTTAGATGGCACCTTTCACCACTTGGTCAGAATTTT
AAAAGCTTAGGTTTAGGTGAAAGTAGATATTGACAGCTATTCACCTTTCACGGTGCTGGGGCCAGATTAGGGATC
ACTCCCGTGAGGAGGGCCTTCACCCTGTTCTAGAAGCACATGGTTGTCCTCCTGTTGTTGGCACATTAAATGATA
AAAAGCACCTCATGAGATTCCCTTGATCAGCCCTGCAGCTGTAGTACAGTGCTGTGCCCTCACCTCCACCCTTCC
TGTTGTTCCCACGTGGGCAATACCAGGGACCCATGGGGAAACTCAAGAATGACAGCTTCTATATTTTGTAATTCT
GGATGAAAGATAACTGTGTTGAACAAACAGGTGCTCCAGGCTTTGATTATAGATACGACTTCAAAAATATGCTAA
GACGCTTGACTTATTAAGGACTTTAACCTACTCAACAGTATTTCATATCCATTGTGGTTAGTTACTCAGTTATGT
TGAGAAGAATCTGGAGCTAAAAGCAGAGATGTTTGAGGTGACGGTAGGAATGTGAGCAGGATGGTGATGGGGGTT
TTTGTTAAAATGCATCTGAGCAAGTCAGCCAGCCCCGAAGTCCCCTCAGTGTGTGTGTCTCGAGTGGCTACCTGT
TGGGCTTGTGGGCAGTGATTGTACAGAGCCTGTCCATTGGGTGCAGTCATGTAGATCTGAAGCCCTGAAAAGCCT
CATGTCTGCATCCCCTTTCCAAGGCTGCTTCCCTGGTGTGTCTGTTCTCTCCTCGTCCCAGGTGCTGGGAGCGT
CCTCTTCAGCGTCTTTTCCTAGAGCTGGTCACCACTAGGCTGTCACTATAAATTCCTTGAATATAAGTAACAGTT
ATTAATGAACTTCTAAATTTCTAATTTCTCTCTCTCTCTCTTTTTTTTTTTTTTGTTGTTGTTAAAAAGGGCCTA
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FIGURE 3881B

CTACATTGGCGCTATTCTTAGGACTTCTGCAACTTTTAAAGTCTTACTTGTCTTTCTTGTTGCTTTTGTATTAGG
AGTTCCCCGTGTGGGTCTAGAACTCCCCTTTGGTAATGCTTCTTTGTTTTTTTATGGCCCTTCTGTTCTCAGGAT
GGAGAGAACACAGAAGCTACTATCCATGTCAGGATTTATTCTATTTATATCTTATTACAATAAAATTAGTGGCAC
TTTATTCATAAATATTCATGAGCCTGTTAATTGTTAGTTGTCTTCCTGTAGCTGAATCAACAAGTTATTTTCAAC
TCAATTTTATGACTTGCGAAAAAGCTTTTGCCCTGTTGTGTACCATAACATTTAAAAGAATGGAAAATGACTGAA
ATCCAATTTAGATTATTTTTAGAGTATTTTTCCAGCAAATTCAATTTATTCTGAAATTTAAATCCAGATCTTTTC
TAATATGGTATTACAATGAAAAGAATAAAGAGAAGATTTGAATTTTCAGTTTCATTTTCAAAAACTATTTACCAA
AACAAATGGAGAAGAAACATCCAAAAGCACATTTCATTTCTCCAAACTTTGTGTTTTAAATTATAGTTATAAATT
GTAAGGTAATTTTAAATTGTCCCTCGTATTATTTCTCCACGTCTGTTTTAGTTTAATGTCTCCTAAGCTTTTCTC
TCATAGCGTAGACCTAGGGAAGGGATGGGAAGATTGCCCAGTCCCCGATGGCTGCGCACACAGGAGGCGGCGGAG
CACAAGGCAAGTGAGTTTGCACTGTCAGCCCCAGACCGTAAGCTTGGCTACACTGATGTTTTTCTTTACTAAGGA
TACTATTCAAAAATTAACATTTTCATCTCAGTAAGTTTTTAGAACATCAAAATGTTTTCTGAGCTCCAAGTGGCT
AGGTTGTAAAAGTTTTATAATAATTTGCAATTAAAATACATGATACATATTAATCCATTAAAGACTAGTGGGAAT
GTATCAGCCAGAGTAGCAAGTAATTTTTGTTTTATAAATCATAGTATCTGTCATCTTGCAGTATTACCAATGCTG
TTGTAAATTGAATTTAAAGTGGTATTAAAAAAAACTGTTAAACAATTTTTATCTGTTTGTATATCTTACTATAGA
TTATGTACAAGTAACATCTAAATAAAATTACACTTTTAACCCT

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FIGURE 3882

MPLVKRNIEPRHLCRGALPEGITSELECVTNSTLAAIIRQLSSLSKHAEDIFGELFNEANNFYIRANSLQDRIDR
LAVKVTQLDSTVEEVSLQDINMKKAFKSSTVQDQQVVSKNSIPNPVADIYNQSDKPPPLNILTPYRDDKKDGLKF
YTDPSYFFDLWKEKMLQDTEDKRKEKRRQKEQKRIDGTTREVKKVRKARNRRQEWNMMAYDKELRPDNRLSQSVY
HGASSEGSLSPDTRSHASDVTDYSYPATPNHSLHPQPVTPSYAAGDVPPHGPASQAAEHEYRPPSASARHMALNR
PQQPPPPPPPQAPEGSQASAPMAPADYGMLPAQIIEYYNPSGPPPPPPPPVIPSAQTAFVSPLQMPMQPPFPASA
SSTHAAPPHPPSTGLLVTAPPPPGPPPPPPGPPGPGSSLSSSPMHGPPVAEAKRQEPAQPPISDARSDLLAAIRM
GIQLKKVQEQREQEAKREPVGNDVATILSRRIAVEYSDSDDDSEFDENDWSD

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FIGURE 3883

ATGCGCGATCTCCCGGAGCATGCGCAGCAGCGGCGCCGACGCGGGCGGTGCCTGGTGACCGCGCGCGCTCCCGG
AAGTGTGCCGGCGTCGCGCGAAGGTTCAGCAGGGAGCCGTGGGCCGGGCGCGCCGGTTCCCGGCACGTGTCTCGG
CACGTGGCAGCGCGCCTGGCCCTGGGCTTGGAGGCGCCGGCGCCCTGGATCCGCCGGCCGTGGTCGCCGAGTCGG
TGTCGTCCTTGACCATCGCCGACGCGTTCATTGCAGCCGGCGAGAGCTCAGCTCCGACCCCGCCGCGCCCCGCGC
TTCCCAGGAGGTTCATCTGCTCCTTCCCTGACTGCAGCGCCAATTACAGCAAAGCCTGGAAGCTTGACGCGCACC
TGTGCAAGCACACGGGGGAGAGACCATTTGTTTGTGACTATGAAGGGTGTGGCAAGGCCTTCATCAGGGACTACC
ATCTGAGCCGCCACATTCTGACTCACACAGGAGAAAAGCCGTTTGTTTGTGCAGCCAATGGCTGTGATCAAAAAT
TCAACACAAAATCAAACTTGAAGAAACATTTTGAACGCAAACATGAAAATCAACAAAAACAATATATATGCAGTT
TTGAAGACTGTAAGAAGACCTTTAAGAAACATCAGCAGCTGAAAATCCATCAGTGCCAGCATACCAATGAACCTC
TATTCAAGCTATGTATGTCAAAAAGGATGTTCCTTTGTGGCAAAAACATGGACGGAACTTCTGAAACATGTGAGA
GAAACCCATAAAGAGGAAATACTATGTGAAGTATGCCGGAAAACATTTAAACGCAAAGATTACCTTAAGCAACAC
ATGAAAACTCATGCCCCAGAAAGGGATGTATGTCGCTGTCCAAGAGAAGGCTGTGGAAGAACCTATACAACTGTG
TTTAATCTCCAAAGCCATATCCTCTCCTTCCATGAGGAAAGCCGCCCTTTTGTGTGTGAACATGCTGGCTGTGGC
AAAACATTTGCAATGAAACAAAGTCTCACTAGGCATGCTGTTGTACATGATCCTGACAAGAAGAAAATGAAGCTC
AAAGTCAAAAAATCTCGTGAAAAACGGAGTTTGGCCTCTCATCTCAGTGGATATATCCCTCCCAAAAGGAAACAA
GGGCAAGGCTTATCTTTGTGTCAAAACGGAGAGTCACCCAACTGTGTGGAAGACAAGATGCTCTCGACAGTTGCA
GTACTTACCCTTGGCTAAGAACTGCACTGCTTTGTTTAAAGGACTGCAGACCAAGGAGCGAGCTTTCTCTCAGAG
CATGCTTTTCTTTATTAAAATTACTGATGCAG

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FIGURE 3884

GGGGGGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTCGCAGAGCTGCGGAAG
ATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAACTTTCAGCAAGTGGACCTTTT
GAAAGTCATGATCTTCTTCGGAAAGGTTTTTCTTGTGTGAAAAATGAACTTTTGCCTAGTCATCCCCTTGAATTA
TCAGAAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTCCACACTGAGAAACATTCAGGGTCTATTTGCT
CCGCTAAAATTACAGATGGAATTCAAGGCAGTGCAGCAGGTTCAGCGTCTTCCATTTCTTTCAAGCTCAAATCTT
TCACTGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGAA
GTCATGGGAGAGCCACACTTGATGGTGGAATATAAACTTGGTTTACTG**TAA**TAGTGTGCTGTTCATGGAAACCGA
GGGCTGCATCTTGTTTATAGTCATCTTTGTACTGTAATTTGATGTACACAACATTAAAAGTACTGACACCTGAGA
ATTTCTGCTCAAGTAGTATCAGTGATCATTTAAAATTTGGAGGGGTCTTTGGTTTACAGCCATGTGACAATTAAA
AGCACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATTAAAACAGTAGCCTTTGTCTTTAAAAAAGTTGTTG
CTCATGAATATTATAAAATGATCTACAGGTTTCAATTCAACCTGTTTCTAGGTTTTTTTGTAAATTTAGTTTTGA
TTAAGCATTATAAGCATTTGAGTCTATAAACTTTATAGTAGCATCTTTCAGAATAAACATTTTTAATTGATTTCA
GTGGCAACTCTCAAATTGATTACAATATGAGATATATCAGTGTCGTCCATTAACACTCATAAGAATAATATTTAC
TGTGTCAGTGCTATTTTAGGATTATAGTTATTGTTTGATTATTTCAGGTTGAAAAGTAGAAGTTCCAAGGTTTTG
ATTTTGGTCTGGTCTTTAAGTGAAAAATTAAAGCAACCAGTAGATGTAGGTTAAACTTTTACTTCATAGACTTAA
TATGTGATTAATATATTGCCAAGCAACACTGTTAAAGAAAAGTAAAACTCATTTTTTCTTGTTCTTAATTTATAT
ATTACAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAAATTTACATTTTTAGAACATTAGTGAATGG
ATCATCTTTTACAATTAAAAGTATATTTTGATTATCAGTTTCTTAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 3885

MNARGLGSELKDSIPVTELSASGPFESHDLLRKGFSCVKNELLPSHPLELSEKNFQLNQDKMNFSTLRNIQGLFA
PLKLQMEFKAVQQVQRLPFLSSSNLSLDVLRGNDETIGFEDILNDPSQSEVMGEPHLMVEYKLGLL

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FIGURE 3886

ACACTGATGATGTTTTTAGCCAGGGTGCCGTTCCTTTTCACTATTGTGCCATTCTCTGTTCTACGGTCCATGTTG
TCAAAAGTGGTTCGTTCGACTGAACAAGGTACCCTGTTTGCTTGTATTGCTTTCTTAGAAACACTTGGAGGAGTC
ACTGCAGTTTCTACTTTTAATGGAATTTACTCAGCCACTGTTGCTTGGTACCCTGGCTTCACTTTCCTGCTGTCT
GCTGGTCTGTTACTACTTCCAGCCATCAGTCTATGTGTTGTCAAGTGTACCAGCTGGAATGAGGGAAGCTATGAA
CTTCTTATACAAGAAGAATCCAGTGAAGATGCTTCAGACAGAGCCTGTTAAGCTGCTATTGATAGTCGGAGCTTA
TATACTGTGACTTCTGAAGACTATACATGAATTCCACAATCAGTGCTTTGTTGATACAAAATCCTTAAAAGGGAG
GCACTTTAAAGAATATGTATTTTTCACTTTTCTTAATATGTTTCATCGGTGACAGGCATGATAATATTTCTATAT
GTAATGGGTAATTGGGAAAAAATAGATGATAAATAAAATTGCTCTAAAGAAGTT

FIGURE 3887

GAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTCTGTGCCTCGCTGAGGAAAAATAACTAAA
C<u>ATG</u>GGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATATGCATTTTTTGTGCAAACTTGTCGGGA
GGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAGAAGTGCTCAGAGAGGTGGAA
GACCATGTCTGCTAAAGAGAAAGGAAAATTTGAAGATATGGCAAAGGCGGACAAGGCCCGTTATGAAAGAGAAAT
GAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAAGAAGTTCAAGGATCCCAATGCACCCAAGAGGCCTCCTTC
GGCCTTCTTCCTCTTCTGCTCTGAGTATCGCCCAAAAATCAAAGGAGAACATCCTGGCCTGTCCATTGGTGATGT
TGCGAAGAAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGCCTTATGAAAAGAAGGCTGCGAA
GCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAGCCTGATGCAGCAAAAAAGGGAGT
TGTCAAGGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAGGAAGATGAAGAGGATGAGGAGGAGGA
GGAAGATGAAGAAGATGAAGATGAAGAAGAAGATGATGATGAA<u>TAA</u>GTTGGTTCTAGCGCAGTTTTTTTTTC
TTGTCTATAAAGCATTTAACCCCCCTGTACACAACTCACTCCTTTTAAAGAAAAAAATTGAAATGTAAGGCTGTG
TAAGATTTGTTTTTAAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATGTGTCTTTAGATAGCC
CTGTCCTGGTGGTATTTTCAATAGCCACTAACCTTGCCTGGTACAGTATGGGGGTTGTAAATTGGCATGGAAATT
TAAAGCAGGTTCTTGTTGGTGCACAGCACAAATTAGTTATATATGGGGATGGTAGTTTTTTCATCTTCAGTTGTC
TCTGATGCAGCTTATACGAAATAATTGTTGTTCTGTTAACTGAATACCACTCTGTAATTGCAAAAAAAAAAAAAG
TTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTTATTAAAAAAAAAAAAAAAAAA
AAAAAAA

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FIGURE 3888

MGKGDPKKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGKFEDMAKADKARYEREM
KTYIPPKGETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAAK
LKEKYEKDIAAYRAKGKPDAAKKGVVKAEKSKKKKEEEEDEEDEEDEEEEDEEDEDEEEDDDDE

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FIGURE 3889

CGGAGGTGAGGTTTGTTACCGCGATTCTGAGAGGTGGGCTTTTAGTCCCTCCAGACCTCGGCTTTAGTGCTGTCT
CCGCTTTTCTTTCACCTTCACAGAGGTTCGTGTCTTCCTAAAAGAAGGTTTTATTGGGAGGTAAAGGTCAATGCG
TAGGGGTAGAGTAAG**ATGT**CTTATGGTGAAATTGAAGGTAAATTCTTGGGACCTAGAGAAGAAGTAACGAGTGAG
CCACGCTGTAAAAAATTGAAGTCAACCACAGAGTCGTATGTTTTTCACAATCATAGTAATGCTGATTTTCACAGA
ATCCAAGAGAAAACTGGAAATGATTGGGTCCCTGTGACCATCATTGATGTCAGAGGACATAGTTATTTGCAGGAG
AACAAAATCAAÃACTACAGATTTGCATAGACCTTTGCATGATGAGATGCCTGGTAATAGACCAGATGTTATTGAA
TCCATTGATTCACAGGTTTTACAGGAAGCACGTCCTCCATTAGTATCCGCAGACGATGAGATATATAGCACAAGT
AAAGCATTTATAGGACCCATTTACAAACCCCCTGAGAAAAAGAAACGTAATGAAGGGAGGAATGAGGCACATGTT
CTAAATGGTATAAATGACAGAGGAGGACAAAAAGAGAAACAGAAATTTAACTCTGAAAAATCAGAGATTGACAAT
GAATTATTCCAGTTTTACAAAGAAATTGAAGAGCTTGAAAAGGAAAAAGATGGTTTTGAGAACAGTTGTAAAGAA
TCTGAACCTTCTCAGGAACAATTTGTTCCATTTTATGAGGGTCATAATAATGGTCTCTTAAAAACCTGATGAAGAA
AAGAAAGATCTTAGTAATAAAGCTATGCCATCACATTGTGATTATCAGCAGAACTTGGGGAATGAGCCAGACAAA
TATCCCTGTAATGGACAAGTAATACCTACATTTGTGACACTTCATTTACTTCTTTCAGGCCTGAATGGCAGTCA
GTATATCCTTTTTATAGTGCCCTATGGTCCCCCTCTTCCCAGTTTGAACTATCATTTAAACATTCAGAGATTCAGT
GGTCCACCAAATCCACCATCAAATATTTTTCCAAGCCCAAGATGACTCTCAGATACAAAATGGATATTATGTAAAT
AATTGTCATGTTAACTGGAATTGCATGACTTTTGATCAGAACAATGAATATACTGACTGTAGTGAGAATAGGAGT
AGTGTTCATCCCTCTGGAAATGGCTGCAGTATGCAAGATCGATATGTGAGTAATGGTTTCTGTGAAGTCAGAGAA
AGATGCTGGAAAGATCATTGTATGGACAAGCATAATGGAACAGACAGGTTTGTGAACCAGCAGTTTCAAGAGGAA
AAGTTAAATAAATTGCAGAAGTTACTTATTCTTTTAAGAGGTCTGCCTGGTTCTGGGAAAACAACATTGTCTCGA
ATTCTGCTTGGTCAGAATCGTGATGGCATTGTGTTCAGCACTGATGACTATTTTCACCATCAAGATGGGTACAGG
TATAATGTTAATCAACTTGGTGATGCCCATGACTGGAACCAGAACAGAGCAAAACAAGCTATCGATCAGGGAAGA
TCTCCAGTTATAATAGATAACACTAATATACAAGCTTGGGAAATGAAGCCATATGTGGAAGTGGCCATAGGAAAA
GGATACAGAGTAGAGTTTCATGAACCTGAAACTTGGTGGAAATTTGATCCTGAAGAATTAGAAAAGAGGAATAAA
CATGGTGTGTCTCGAAAGAAGATTGCTCAGATGTTGGATCGTTATGAATATCAAATGTCCATTTCTATTGTAATG
AATTCAGTGGAACCATCACACAAAAGCACACAAAGACCTCCTCCTCCACAGGGGAGACAGAGGTGGGGAGGCTCT
CTTGGCTCACATAATCGTGTCTGTGTCACAAATAATCAT**TAA**ATTAGCTATTTTCAGCTAACACATTTGTTGTTG
CACTTGAAAAAGAGTTAGTGAGCCTGTCTTGGAGTTTAAGTAGTTTCAAATAAAAAAAGGCTACAGTGCCTCACA
AAGGATGTTCCCAGCAAGTTGTTTAAATTCCCAGCAAGTTGTTAAAGTGTAAATAAAAATATATGAAATTGTATT
TTAAATGTTTTTATATTCTCTTGTTGTAATACTCTTGGCTGTTATGGAAGCACCTGAGTAATAGAGTGGTGGGTA
GGAGCTAGGATGTTTTTCTACAATCGAATTTTAAACTAATTTATCTATTTTATAGACACTATTGAACAGTTTTTT
AATAGTTCATATCTAAATCTAACTTTTCATAAAACTTTACGGTTTTTCCTTCACTACCTTAAATATGCAAGAAAT
ACTGACTTGGTATAGGGTACCTTAGTTTTCTCTATTCATTAGACAGGTAAAATTATATTTCAGCTGATTGATCTG
TGTGACAAAATTATTTCTTAGCTATAATCAGCACATCACTTAGTTCAAACAAAATTCCCCAGCAAATGTTAGATA
GTAGGTATATCAGTCACCTGGGGAGTTTTCTTCATAATATGCATATTCATCTTGTAATGCATACATAGTTATCAT
CCTCCTTCTCAACCCATCTCCCTAACCCCACATGCTTGCCAGTTCTTGAAGGGATAAAGTGATTCTAATAATGTT
TTACTTCTCTCTGTTCAATTTAATGTGATATAATTCTAGTATAAAAATATTTTGGACAGTTGCTTAACATGGTCA
TAAGAGGATTTGTACTATAGAATATCTTCTAGTACTAATTTTTCTGTAGAGCAAATTATATTTCTCTCACTGGAT
AGTTTTTAGATGTGTTTCTTCATATAAAAATTAAAAACTGAGATGGAATTC

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FIGURE 3890

MSYGEIEGKFLGPREEVTSEPRCKKLKSTTESYVFHNHSNADFHRIQEKTGNDWVPVTIIDVRGHSYLQENKIKT
TDLHRPLHDEMPGNRPDVIESIDSQVLQEARPPLVSADDEIYSTSKAFIGPIYKPPEKKKRNEGRNEAHVLNGIN
DRGGQKEKQKFNSEKSEIDNELFQFYKEIEELEKEKDGFENSCKESEPSQEQFVPFYEGHNNGLLKPDEEKKDLS
NKAMPSHCDYQQNLGNEPDKYPCNGQVIPTFCDTSFTSFRPEWQSVYPFIVPYGPPLPSLNYHLNIQRFSGPPNP
PSNIFQAQDDSQIQNGYYVNNCHVNWNCMTFDQNNEYTDCSENRSSVHPSGNGCSMQDRYVSNGFCEVRERCWKD
HCMDKHNGTDRFVNQQFQEEKLNKLQKLLILLRGLPGSGKTTLSRILLGQNRDGIVFSTDDYFHHQDGYRYNVNQ
LGDAHDWNQNRAKQAIDQGRSPVIIDNTNIQAWEMKPYVEVAIGKGYRVEFHEPETWWKFDPEELEKRNKHGVSR
KKIAQMLDRYEYQMSISIVMNSVEPSHKSTQRPPPPQGRQRWGGSLGSHNRVCVTNNH

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FIGURE 3891

CGAGCTGCC**ATG**AGCCTCTGGGTGGACAAGTATCGGCCCTGCTCCTTGGGACGGCTGGACTATCACAAGGAGCAG
GCGGCCCAGCTGCGGAACCTGGTGCAGTGTGGTGACTTTCCTCATCTGTTAGTGTACGGACCATCAGGTGCTGGA
AAAAAGACAAGAATTATGTGTATTTTACGTGAACTTTATGGTGTTGGAGTGGAAAAATTGAGAATTGAACATCAG
ACCATCACAACTCCATCTAAAAAAAAAAATTGAAATTAGCACCATTGCAAGTAACTACCACCTTGAAGTTAATCCT
AGTGATGCTGGAAATAGTGACCGAGTAGTCATTCAGGAGATGTTGAAAACAGTGGCACAATCACAACAACTTGAA
ACAAACTCTCAAAGGGATTTTAAAGTGGTATTATTGACAGAAGTTGACAAACTCACCAAAGATGCTCAGCATGCC
TTGCGAAGAACCATGGAAAAATATATGTCTACCTGCAGATTGATCTTGTGCTGCAATTCTACATCTAAAGTGATC
CCACCTATTCGTAGTAGGTGCTTGGCGGTTCGTGTGCCTGCTCCCAGCATTGAAGATATTTGCCACGTGTTATCT
ACTGTGTGTAAGAAGGAAGGTCTGAATCTTCCTTCACAACTGGCTCATAGACTTGCAGAGAAGTCTTGTAGAAAT
CTCAGAAAAGCCCTGCTTATGTGTGAAGCCTGCAGAGTGCAACAATATCCTTTTACTGCAGATCAAGAAATCCCT
GAGACAGATTGGGAGGTGTATCTGAGGGAGACTGCAAATGCTATTGTCAGTCAGCAAACTCCACAAAGGCTCCTT
GAAGTTCGTGGAAGGCTGTATGAGCTTCTAACTCATTGTATTCCTCCTGAGATAATAATGAAGGGCCTTCTCTCA
GAACTGTTACATAATTGTGATGGACAACTGAAAGGGGAGGTGGCACAAATGGCAGCTTACTATGAGCATCGTCTA
CAGCTGGGTAGCAAAGCCATTTATCACTTGGAAGCGTTTGTGGCCAAATTCATGGCACTTTATAAGAAGTTCATG
GAGGATGGATTGGAAGGCATGATGTTC**TGA**CTTCTGTCAGTTATTCTTGCAAAGATTTCTCAGTATCAGTATTTA
CATACAGCTTATATTAAAAGAGCTGTGGGTAAATTAACTGAACTTAATCATGTCGTATTTGGGTTTTTTTGGTAA
TAACTTCTCTGTGAACTATTAATCATCCTCTGAGTTAAATAATTGCTCCTATACTATTGAAGTATGTAGTTTTGT
ACATAACTTAGAGACTTTAGAGTCTAAGAAAATGATCTTAATTTACTTTAAGCATTGGTTATTCAAGTATTCATT
GTTGATCCTCCTATTCTCTTCCGTCTAATCTCTCACCTGCTAAAGGAGATTTACACATTAGAAAGCAAAGATTAT
TTTCATTTATCCAGATGACCATTTTCTGCCACAGGTAACATGATTGTTTGACGG

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FIGURE 3892

MSLWVDKYRPCSLGRLDYHKEQAAQLRNLVQCGDFPHLLVYGPSGAGKKTRIMCILRELYGVGVEKLRIEHQTIT
TPSKKKIEISTIASNYHLEVNPSDAGNSDRVVIQEMLKTVAQSQQLETNSQRDFKVVLLTEVDKLTKDAQHALRR
TMEKYMSTCRLILCCNSTSKVIPPIRSRCLAVRVPAPSIEDICHVLSTVCKKEGLNLPSQLAHRLAEKSCRNLRK
ALLMCEACRVQQYPFTADQEIPETDWEVYLRETANAIVSQQTPQRLLEVRGRLYELLTHCIPPEIIMKGLLSELL
HNCDGQLKGEVAQMAAYYEHRLQLGSKAIYHLEAFVAKFMALYKKFMEDGLEGMMF

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FIGURE 3893

GGGCGGGAAGATGGCGGCTGGGTTCAAAACCGTGGAACCTCTGGAGTATTACAGGAGATTTCTGAAAGAGAACTG
CCGTCCTGATGGAAGAGAACTTGGTGAATTCAGAACCACAACTGTCAACATCGGTTCAATTAGTACCGCAGATGG
TTCTGCTTTAGTGAAGTTGGGAAATACTACAGTAATCTGTGGAGTTAAAGCAGAATTTGCAGCACCATCAACAGA
TGCCCCTGATAAAGGATACGTTGTTCCTAATGTGGATCTACCACCCCTGTGTTCATCGAGATTCCGGTCTGGACC
TCCTGGAGAAGAGGCCCAAGTGGCTAGCCAGTTCATTGCAGATGTCATTGAAAATTCACAGATAATTCAGAAAGA
GGACTTATGCATTTCTCCAGGAAAGCTTGTCTGGGTTCTATACTGTGATCTCATTTGCCTCGACTACGATGGAAA
CATTTTGGATGCCTGCACATTTGCTTTGCTAGCGGCTTTAAAAAATGTACAGTTGCCTGAAGTTACTATAAATGA
AGAAACTGCTTTAGCAGAAGTTAATTTAAAGAAGAAAAGTTATTTGAATATTAGAACTCATCCAGTTGCAACTTC
CTTTGCTGTGTTTGATGACACTTTGCTTATAGTTGACCCTACTGGAGAGGAGGAACATCTGGCAACAGGAACCTT
AACAATAGTAATGGATGAGGAAGGCAAACTCTGTTGTCTTCACAAACCAGGCATGTTCCCGCCACTTCAGTCCTA
AACATATGTAGATGAAAACTCAGTGTGAGCCTTAAATTAGGGAGGGCCAAATAGAATATGG

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FIGURE 3894

MAAGFKTVEPLEYYRRFLKENCRPDGRELGEFRTTTVNIGSISTADGSALVKLGNTTVICGVKAEFAAPSTDAPD
KGYVVPNVDLPPLCSSRFRSGPPGEEAQVASQFIADVIENSQIIQKEDLCISPGKLVWVLYCDLICLDYDGNILD
ACTFALLAALKNVQLPEVTINEETALAEVNLKKKSYLNIRTHPVATSFAVFDDTLLIVDPTGEEEHLATGTLTIV
MDEEGKLCCLHKPGGSGLTGAKLQDCMSRAVTRHKEVKKLMDEVIKSMKPK

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FIGURE 3895

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AGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCCTATAAACGCCA
ACAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGTCGGGACCAAGGCCCAAATGTCTGTGCCCTTC
AACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAGAACTGGTATAAAAAGTCCATCTGTGGACAGA
AAACGACTGTGTTATATGAATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCCAGCAGTTTTGC
CCATTGACCATGTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTCTGACGCCTCAAAAC
TGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCACCGAGTAATGAGGCTTGGGACAACTTGGATT
CTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAATTACTGAATGCTTTACATAGTCACATGATTAATA
AGAGAATGTTGACCAAGGACTTAAAAAATGGCATGATTATTCCTTCAATGTATAACAATTTGGGGCTTTTCATTA
ACCATTATCCTAATGGGGTTGTCACTGTTAATTGTGCTCGAATCATCCATGGGAACCAGATTGCAACAAATGGTG
TTGTCCATGTCATTGACCGTGTGCTTACACAAATTGGTACCTCAATTCAAGACTTCATTGAAGCAGAAGATGACC
TTTCATCTTTTAGAGCAGCTGCCATCACATCGGACATATTGGAGGCCCTTGGAAGAGACGGTCACTTCACACTCT
TTGCTCCCACCAATGAGGCTTTTGAGAAACTTCCACGAGGTGTCCTAGAAAGGATCATGGGAGACAAAGTGGCTT
CCGAAGCTCTTATGAAGTACCACATCTTAAATACTCTCCAGTGTTCTGAGTCTATTATGGGAGGAGCAGTCTTTG
AGACGCTGGAAGGAAATACAATTGAGATAGGATGTGACGGTGACAGTATAACAGTAAATGGAATCAAAATGGTGA
ACAAAAAGGATATTGTGACAAATAATGGTGTGATCCATTTGATTGATCAGGTCCTAATTCCTGATTCTGCCAAAC
AAGTTATTGAGCTGGCTGGAAAACAGCAAACCACCTTCACGGATCTTGTGGCCCAATTAGGCTTGGCATCTGCTC
TGAGGCCAGATGGAGAATACACTTTGCTGGCACCTGTGAATAATGCATTTTCTGATGATACTCTCAGCATGGATC
AGCGCCTCCTTAAATTAATTCTGCAGAATCACATATTGAAAGTAAAAGTTGGCCTTAATGAGCTTTACAACGGGC
AAATACTGGAAACCATCGGAGGCAAACAGCTCAGAGTCTTCGTATATCGTACAGCTGTCTGCATTGAAAATTCAT
GCATGGAGAAAGGGAGTAAGCAAGGGAGAAACGGTGCGATTCACATATTCCGCGAGATCATCAAGCCAGCAGAGA
AATCCCTCCATGAAAAGTTAAAACAAGATAAGCGCTTTAGCACCTTCCTCAGCCTACTTGAAGCTGCAGACTTGA
AAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAACCAATGATGCTTTTAAGGGAATGACTAGTG
AAGAAAAAGAAATTCTGATACGGGACAAAAATGCTCTTCAAAACATCATTCTTTATCACCTGACACCAGGAGTTT
TCATTGGAAAAGGATTTGAACCTGGTGTTACTAACATTTTAAAGACCACACAAGGAAGCAAAATCTTTCTGAAAG
AAGTAAATGATACACTTCTGGTGAATGAATTGAAATCAAAAGAATCTGACATCATGACAACAAATGGTGTAATTC
ATGTTGTAGATAAACTCCTCTATCCAGCAGACACACCTGTTGGAAATGATCAACTGCTGGAAATACTTAATAAAT
TAATCAAATACATCCAAATTAAGTTTGTTCGTGGTAGCACCTTCAAAGAAATCCCCGTGACTGTCTATACAACTA
AAATTATAACCAAAGTTGTGGAACCAAAAATTAAAGTGATTGAAGGCAGTCTTCAGCCTATTATCAAAACTGAAG
GACCCACACTAACAAAAGTCAAAATTGAAGGTGAACCTGAATTCAGACTGATTAAAGAAGGTGAAACAATAACTG
AAGTGATCCATGGAGAGCCAATTATTAAAAAATACACCAAAATCATTGATGGAGTGCCTGTGGAAATAACTGAAA
AAGAGACACGAGAAGAACGAATCATTACAGGTCCTGAAATAAAATACACTAGGATTTCTACTGGAGGTGGAGAAA
CAGAAGAAACTCTGAAGAAATTGTTACAAGAAGAGGTCACCAAGGTCACCAAATTCATTGAAGGTGGTGATGGTC
ATTTATTTGAAGATGAAGAAATTAAAAGACTGCTTCAGGGAGACACACCCGTGAGGAAGTTGCAAGCCAACAAAA
AAGTTCAAGGATCTAGAAGACGATTAAGGGAAGGTCGTTCTCAGTGAAAATCCAAAAACCAGAAAAAAATGTTTA
TACAACCCTAAGTCAATAACCTGACCTTAGAAAATTGTGAGAGCCAAGTTGACTTCAGGAACTGAAACATCAGCA
CAAAGAAGCAATCATCAAATAATTCTGAACACAAATTTAATATTTTTTTTTCTGAATGAGAAACATGAGGGAAAT
TGTGGAGTTAGCCTCCTGTGGTAAAGGAATTGAAGAAAATATAACACCTTACACCCTTTTTCATCTTGACATTAA
AAGTTCTGGCTAACTTTGGAATCCATTAGAGAAAAATCCTTGTCACCAGATTCATTACAATTCAAATCGAAGAGT
TGTGAACTGTTATCCCATTGAAAAGACCGAGCCTTGTATGTATGTTATGGATACATAAAATGCACGCAAGCCATT
ATCTCTCCATGGGAAGCTAAGTTATAAAAATAGGTGCTTGGTGTACAAAACTTTTTATATCAAAAGGCTTTGCAC
ATTTCTATATGAGTGGGTTTACTGGTAAATTATGTTATTTTTTACAACTAATTTTGTACTCTCAGAATGTTTGTC
ATATGCTTCTTGCAATGCATATTTTTTAATCTCAAACGTTTCAATAAAACCATTTTTCAGATATAAAGAGAATTA
CTTCAAATTGAGTAATTCAGAAAAACTCAAGATTTAAGTTAAAAAGTGGTTTGGACTTGGGAA
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FIGURE 3896A

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GCAGCCGCCACATTCAACAGGCAGCAGCGCAGCGGGCGCGCCGCTGGGGAGAGCAAGCGGCCCGCGGCGTCCGTC
CGTCCTTCCGTCCGCGGCCCTGTCAGCTGGAGCGCGGCGCAGGCTCTGCCCCGGCCCGGCGGCTCTGGCCGGCCG
TCCAGTCCGTGCGGCGGACCCCGAGGAGCCTCGATGTGGATGGCCCCGCGAAGTTAAGTTCTGGGCTCGCGCTTC
CACTCCGCCGCGCCTTCCTCCCAGTTTCCGTCCGCTCGCCGCACCGGCTTCGTTCCCCCAAATCTCGGACCGTCC
CTTCGCGCCCCCTCCCCGTCCGCCCCCAGTGCTGCGTTCTCCCCCTCTTGGCTCTCCTGCGGCTGGGGGAGGGGC
GGGGGTCACCATGGCCGAGGCGCCTCAGGTGGTGGAGATCGACCCGGACTTCGAGCCGCTGCCCCGGCCGCGCTC
GTGCACCTGGCCGCTGCCCAGGCCGGAGTTTAGCCAGTCCAACTCGGCCACCTCCAGCCCGGCGCCGTCGGGCAG
CGCGGCTGCCAACCCCGACGCCGCGGCGGGCCTGCCCTCGGCCTCGGCTGCCGCTGTCAGCGCCGACTTCATGAG
CAACCTGAGCTTGCTGGAGGAGAGCGAGGACTTCCCGCAGGCGCCCGGCTCCGTGGCGGCGGCGGTGGCGGCGGC
GGCCGCCGCGGCCGCCACCGGGGGGCTGTGCGGGGACTTCCAGGGCCCGGAGGCGGGCTGCCTGCACCCAGCGCC
ACCGCAGCCCCCGCCGCCCGGGCCGCTGTCGCAGCACCCGCCGGTGCCCCCCGCCGCCGCTGGGCCGCTCGCGGG
GCAGCCGCGCAAGAGCAGCTCGTCCCGCCGCAACGCGTGGGGCAACCTGTCCTACGCCGACCTCATCACCAAGGC
CATCGAGAGCTCGGCGGAGAAGCGGCTCACGCTGTCGCAGATCTACGAGTGGATGGTCAAGAGCGTGCCCTACTT
CAAGGATAAGGGTGACAGCAACAGCTCGGCGGGCTGGAAGAATTCAATTCGTCATAATCTGTCCCTACACAGCAA
GTTCATTCGTGTGCAGAATGAAGGAACTGGAAAAAGTTCTTGGTGGATGCTCAATCCAGAGGGTGGCAAGAGCGG
GAAATCTCCTAGGAGAAGAGCTGCATCCATGGACAACAACAGTAAATTTGCTAAGAGCCGAAGCCGAGCTGCCAA
GAAGAAAGCATCTCTCCAGTCTGGCCAGGAGGGTGCTGGGGACAGCCCTGGATCACAGTTTTCCAAATGGCCTGC
AAGCCCTGGCTCTCACAGCAATGATGACTTTGATAACTGGAGTACATTTCGCCCTCGAACTAGCTCAAATGCTAG
TACTATTAGTGGGAGACTCTCACCCATTATGACCGAACAGGATGATCTTGGAGAAGGGGATGTGCATTCTATGGT
GTACCCGCCATCTGCCGCAAAGATGGCCTCTACTTTACCCAGTCTGTCTGAGATAAGCAATCCCGAAAACATGGA
AAATCTTTTGGATAATCTCAACCTTCTCTCATCACCAACATCATTAACTGTTTCGACCCAGTCCTCACCTGGCAC
CATGATGCAGCAGACGCCGTGCTACTCGTTTGCGCCACCAAACACCAGTTTGAATTCACCCAGCCCAAACTACCA
AAAATATACATATGGCCAATCCAGCATGAGCCCTTTGCCCCAGATGCCTATACAAACACTTCAGGACAATAAGTC
GAGTTATGGAGGTATGAGTCAGTATAACTGTGCGCCTGGACTCTTGAAGGAGTTGCTGACTTCTGACTCTCCTCC
CCATAATGACATTATGACACCAGTTGATCCTGGGGTAGCCCAGCCCAACAGCCGGGTTCTGGGCCAGAACGTCAT
GATGGGCCCTAATTCGGTCATGTCAACCTATGGCAGCCAGGCATCTCATAACAAAATGATGAATCCCAGCTCCCA
TACCCACCCTGGACATGCTCAGCAGACATCTGCAGTTAACGGGCGTCCCCTGCCCCACACGGTAAGCACCATGCC
CCACACCTCGGGTATGAACCGCCTGACCCAAGTGAAGACACCTGTACAAGTGCCTCTGCCCCACCCCATGCAGAT
GAGTGCCCTGGGGGGCTACTCCTCCGTGAGCAGCTGCAATGGCTATGGCAGAATGGGCCTTCTCCACCAGGAGAA
GCTCCCAAGTGACTTGGATGGCATGTTCATTGAGCGCTTAGACTGTGACATGGAATCCATCATTCGGAATGACCT
CATGGATGGAGATACATTGGATTTTAACTTTGACAATGTGTTGCCCAACCAAAGCTTCCCACACAGTGTCAAGAC
AACGACACATAGCTGGGTGTCAGGCTGAGGGTTAGTGAGCAGGTTACACTTAAAAGTACTTCAGATTGTCTGACA
GCAGGAACTGAGAGAAGCAGTCCAAAGATGTCTTTCACCAACTCCCTTTTAGTTTTCTTGGTTAAAAAAAAAAAAC
AAAAAAAAAAACCCTCCTTTTTTTCCTTTCGTCAGACTTGGCAGCAAAGACATTTTTCCTGTACAGGATGTTTGC
CCAATGTGTGCAGGTTATGTGCTGCTGTAGATAAGGACTGTGCCATTGGAAATTTCATTACAATGAAGTGCCAAA
CTCACTACACCATATAATTGCAGAAAAGATTTTCAGATCCTGGTGTGCTTTCAAGTTTTGTATATAAGCAGTAGA
TACAGATTGTATTTGTGTGTGTTTTTGGTTTTTCTAAATATCCAATTGGTCCAAGGAAAGTTTATACTCTTTTTG
TAATACTGTGATGGGCCTCATGTCTTGATAAGTTAAACTTTTGTTTGTACTACCTGTTTTCTGCGGAACTGACGG
ATCACAAAGAACTGAATCTCCATTCTGCATCTCCATTGAACAGCCTTGGACCTGTTCACGTTGCCACAGAATTCA
CATGAGAACCAAGTAGCCTGTTATCAATCTGCTAAATTAATGGACTTGTTAAACTTTTGGAAAAAAAAAGATTAA
ATGCCAGCTTTGTACAGGTCTTTTCTATTTTTTTTTGTTTATTTGTTATTTGCAAATTTGTACAAACATTTAAA
TGGTTCTAATTTCCAGATAAATGATTTTTGATGTTATTGTTGGGACTTAAGAACATTTTTGGAATAGATATTGAA
CTGTAATAATGTTTTCTTAAAACTAGAGTCTACTTTGTTACATAGTCAGCTTGTAAATTTTGTGGAACCACAGGT
ATTTGGGGCAGCATTCATAATTTTCATTTTGTATTCTAACTGGATTAGTACTAATTTTATACATGCTTAACTGGT
TTGTACACTTTGGGATGCTACTTAGTGATGTTCTGACTAATCTTAAATCATTGTAATTAGTACTTGCATATTCA
ACGTTTCAGGCCCTGGTTGGGCAGGAAAGTGATGTATAGTTATGGACACTTTGCGTTTCTTATTTAGGATAACTT
AATATGTTTTTATGTATGTATTTAAAGAAATTTCATCTGCTTCTACTGAACTATGCGTACTGCATAGCATCAAG
TCTTCTCTAGAGACCTCTGTAGTCCTGGGAGGCCTCATAATGTTTGTAGATCAGAAAAGGGAGATCTGCATCTAA
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FIGURE 3896B

AGCAATGGTCCTTTGTCAAACGAGGGATTTTGATCCACTTCACCATTTTGAGTTGAGCTTTAGCAAAAGTTTCCC
CTCATAATTCTTTGCTCTTGTTTCAGTCCAGGTGGAGGTTGGTTTTGTAGTTCTGCCTTGAGGAATTATGTCAAC
ACTCATACTTCATCTCATTCTCCCTTCTGCCCTGCAGATTAGATTACTTAGCACACTGTGGAAGTTTAAGTGGAA
GGAGGGAATTTAAAAATGGGACTTGAGTGGTTTGTAGAATTTGTGTTCATAAGTTCAGATGGGTAGCAAATGGAA
TAGAACTTACTTAAAAATTGGGGAGATTTATTTGAAAACCAGCTGTAAGTTGTGCATTGAGATTATGTTAAAAGC
CTTGGCTTAAGAATTTGAAAATTTCTTTAGCCTGTAGCAACCTAAACTGTAATTCCTATCATTATGTTTTATTAC
TTTCCAATTACCTGTAACTGACAGACCAAATTAATTGGCTTTGTGTCCTATTTAGTCCATCAGTATTTTCAAGTC
ATGTGGAAAGCCCAAAGTCATCACAATGAAGAGAACAGGTGCACAGCACTGTTCCTCTTGTGTTCTTGAGAAGGA
TCTAATTTTTCTGTATATAGCCCACATCACACTTGCTTTGTCTTGTATGTTAATTGCATCTTCATTGGCTTGGTA
TTTCCTAAATGTTTAACAAGAACACAAGTGTTCCTGATAAGATTTCCTACAGTAAGCCAGCTGTATTGTAAGCTT
CCCACCGTGATGATCATTTTTTTGAAGATTCATTGAACAGCCACCACTCTATCATCCTCATTTTGGGGCAGTCCA
AGACATAGCTGGTTTTAGAAACCAAGTTCCTCTAAGCACAGCCTCCCGGGTATGTAACTGAACTTGGTGCCAAA
GTACTTGTGTACTAATTTCTATTACTACGTACTGTCACTTTCCTCCCGTGCCATTACTGCATCATAATACAAGGA
ACCTCAGAGCCCCCATTTGTTCATTAAAGAGGCAACTACAGCCAAAATCACTGTTAAAATCTTACTACTTCATGG
AGTAGCTCTTAGGAAAATATATCTTCCTCCTGAGTCTGGGTAATTATACCTCTCCCAAGCCCCCATTGTGTGTTG
AAATCCTGTCATGAATCCTTGGTAGCTCTCTGAGAACAGTGAAGTCCAGGGAAAGGCATCTGGTCTGTCTGGAAA
GCAAACATTATGTGGCCTCTGGTAGTTTTTTTCCTGTAAGAATACTGACTTTCTGGAGTAATGAGTATATATCAG
TTATTGTACATGATTGCTTTGTGAAATGTGCAAATGATATCACCTATGCAGCCTTGTTTGATTTATTTTCTCTGG
TTTGTACTGTTATTAAAAGCATATTGTATTATAGAGCTATTCAGATATTTTAAATATAAAGATGTATTGTTCCG
TAATATAGACGTATGGAATATATTTAGGTAATAGATGTATTACTTGGAAAGTTCTGCTTTGACAAACTGACAAAG
TCTAAATGAGCACATGTATCCCAGTGAGCAGTAAATCAATGGAACATCCCAAGAAGAGGATAAGGATGCTTAAAA
TGGAAATCATTCTCCAACGATATACAAATTGGACTTGTTCAACTGCTGGATATATGCTACCAATAACCCCAGCCC
CAACTTAAAATTCTTACATTCAAGCTCCTAAGAGTTCTTAATTTATAACTAATTTTAAAAGAGAAGTTTCTTTTC
TGGTTTTAGTTTGGGAATAATCATTCATTAAAAAAAAATGTATTGTGGTTTATGCGAACAGACCAACCTGGCATTA
CAGTTGGCCTCTCCTTGAGGTGGGCACAGCCTGGCAGTGTGGCCAGGGGTGGCCATGTAAGTCCCATCAGGACGT
AGTCATGCCTCCTGCATTTCGCTACCCGAGTTTAGTAACAGTGCAGATTCCACGTTCTTGTTCCGATACTCTGAG
AAGTGCCTGATGTTGATGTACTTACAGACACAAGAACAATCTTTGCTATAATTGTATAAAGCCATAAATGTACAT
AAATTATGTTTAAATGGCTTGGTGTCTTTCTTTTCTAATTATGCAGAATAAGCTCTTTATTAGGAATTTTTTGTG
AAGCTATTAAATACTTGAGTTAA

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FIGURE 3897

MAEAPQVVEIDPDFEPLPRPRSCTWPLPRPEFSQSNSATSSPAPSGSAAANPDAAAGLPSASAAAVSADFMSNLS
LLEESEDFPQAPGSVAAAVAAAAAAAATGGLCGDFQGPEAGCLHPAPPQPPPPGPLSQHPPVPPAAAGPLAGQPR
KSSSSRRNAWGNLSYADLITKAIESSAEKRLTLSQIYEWMVKSVPYFKDKGDSNSSAGWKNSIRHNLSLHSKFIR
VQNEGTGKSSWWMLNPEGGKSGKSPRRRAASMDNNSKFAKSRSRAAKKKASLQSGQEGAGDSPGSQFSKWPASPG
SHSNDDFDNWSTFRPRTSSNASTISGRLSPIMTEQDDLGEGDVHSMVYPPSAAKMASTLPSLSEISNPENMENLL
DNLNLLSSPTSLTVSTQSSPGTMMQQTPCYSFAPPNTSLNSPSPNYQKYTYGQSSMSPLPQMPIQTLQDNKSSYG
GMSQYNCAPGLLKELLTSDSPPHNDIMTPVDPGVAQPNSRVLGQNVMMGPNSVMSTYGSQASHNKMMNPSSHTHP
GHAQQTSAVNGRPLPHTVSTMPHTSGMNRLTQVKTPVQVPLPHPMQMSALGGYSSVSSCNGYGRMGLLHQEKLPS
DLDGMFIERLDCDMESIIRNDLMDGDTLDFNFDNVLPNQSFPHSVKTTTHSWVSG

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FIGURE 3898

GGTTCATTTCGTGTCTCGGCGATGTTTCCTAGAGTCTCGACGTTCCTACCTCTTCGCCCCCTTTCCCGCCACCCT
TTGTCCTCTGGAAGCCCGGAGACATCAGCGGCTGCGATTATGCTACTCACTGTTCGGCACGGAACAGTCAGGTAC
CGCAGTTCAGCGCTGTTGGCCCGGACAAAAAATAACATCCAAAGATATTTTGGCACTAACAGTGTGATCTGTAGC
AAGAAAGATAAGCAGTCTGTTCGAACTGAGGAGACTTCCAAGGAGACTTCAGAGAGCCAAGACAGTGAAAAGGAA
AATACGAAAAAAGACTTGTTAGGCATTATTAAGGGCATGAAAGTTGAATTAAGCACAGTAAATGTACGAACAACA
AAGCCCCCCAAAAGAAGACCACTTAAAAGTTTGGAAGCTACACTTGGCAGGCTTCGAAGAGCTACAGAATATGCT
CCAAAGAAGAGAATTGAGCCCCTGAGTCCTGAGTTGGTGGCAGCTGCATCTGCTGTGGCAGATTCTCTCCCTTTT
GATAAGCAAACAACCAAGTCAGAGCTGCTGAGCCAGCTCCAGCAGCATGAGGAAGAGTCAAGGGCACAGAGAGAT
GCAAAGCGACCTAAAATTAGTTTCAGTAACATAATATCAGATATGAAAGTTGCCAGATCTGCTACAGCTAGAGTT
CGTTCAAGACCAGAGCTTCGGATTCAGTTTGATGAAGGCTATGACAATTATCCTGGCCAGGAGAAGACGGATGAT
CTTAAAAAAAGGAAAAATATATTCACAGGGAAAGACTTAATATTTTTGACATGATGGCAGTTACTAAAGAAGCA
CCTGAAACAGACACATCACCTTCACTTTGGAATGTGGAATTTGCTAAGCAGTTAGCCACAGTAAATGAACAACCC
CTTCAGAATGGATTTGAAGAGCTGATCCAGTGGACAAAGAGGGGAAACTATGGGAGTTCCCAATTAACAATGAA
GCAGGTTTTGATGATGATGGTTCAGAATTTCATGAACATATATTTCTGGAGAAACACCTGGAGAGCTTTCCAAAA
CAAGGACCAATTCGCCACTTCATGGAGCTGGTGACTTGTGGCCTTTCCAAAAACCCATATCTTAGTGTTAAACAG
AAGGTTGAACACATAGAGTGGTTTAGAAATTATTTTAATGAAAAAAAGGATATTCTAAAAGAAAGTAACATACAG
TTCAATTAAGACCATGGAAATTTTTATTTCAAACAATTAGAGATGGATATTACAACTAAATAAAATAATTTTACT
AGAGTTTGT

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FIGURE 3899

MFPRVSTFLPLRPLSRHPLSSGSPETSAAAIMLLTVRHGTVRYRSSALLARTKNNIQRYFGTNSVICSKKDKQSV
RTEETSKETSESQDSEKENTKKDLLGIIKGMKVELSTVNVRTTKPPKRRPLKSLEATLGRLRRATEYAPKKRIEP
LSPELVAAASAVADSLPFDKQTTKSELLSQLQQHEEESRAQRDAKRPKISFSNIISDMKVARSATARVRSRPELR
IQFDEGYDNYPGQEKTDDLKKRKNIFTGKRLNIFDMMAVTKEAPETDTSPSLWNVEFAKQLATVNEQPLQNGFEE
LIQWTKEGKLWEFPINNEAGFDDDGSEFHEHIFLEKHLESFPKQGPIRHFMELVTCGLSKNPYLSVKQKVEHIEW
FRNYFNEKKDILKESNIQFN

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FIGURE 3900

CCCCCCCGAGCGCCGCTCCGGCTGCACCGCGCTCGCTCCGAGTTTCAGGCTCGTGCTAAGCTAGCGCCGTCGTCG
TCTCCCTTCAGTCGCCATC<u>ATG</u>ATTATCTACCGGGACCTCATCAGCCACGATGAGATGTTCTCCGACATCTACAA.
GATCCGGGAGATCGCGGACGGGTTGTGCCTGGAGGTGGAGGGGAAGATGGTCAGTAGGACAGAAGGTAACATTGA
TGACTCGCTCATTGGTGGAAATGCCTCCGCTGAAGGCCCCGAGGGCGAAGGTACCGAAAGCACAGTAATCACTGG
TGTCGATATTGTCATGAACCATCACCTGCAGGAAACAAGTTTCACAAAAGAAGCCTACAAGAAGTACATCAAAGA
TTACATGAAATCAATCAAAGGGAAACTTGAAGAACAGAGACCAGAAAGAGTAAAACCTTTTATGACAGGGGCTGC
AGAACAAATCAAGCACATCCTTGCTAATTTCAAAAACTACCAGTTCTTTATTGGTGAAAACATGAATCCAGATGG
CATGGTTGCTCTATTGGACTACCGTGAGGATGGTGTGACCCCATATATGATTTTCTTTAAGGATGGTTTAGAAAT
GGAAAAATGT<u>TAA</u>CAAATGTGGCAATTATTTTGGATCTATCACCTGTCATCATAACTGGCTTCTGCTTGTCATCC
ACACAACACCAGGACTTAAGACAAATGGGACTGATGTCATCTTGAGCTCTTCATTTATTTTGACTGTGATTTATT
TGGAGTGGAGGCATTGTTTTTAAGAAAAACATGTCATGTAGGTTGTCTAAAAATAAAATGCATTTAAACTCATTT
GAGAG

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FIGURE 3901

MIIYRDLISHDEMFSDIYKIREIADGLCLEVEGKMVSRTEGNIDDSLIGGNASAEGPEGEGTESTVITGVDIVMN
HHLQETSFTKEAYKKYIKDYMKSIKGKLEEQRPERVKPFMTGAAEQIKHILANFKNYQFFIGENMNPDGMVALLD
YREDGVTPYMIFFKDGLEMEKC

FIGURE 3902

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GCGGCACGGAGCGGGCGTGCTGAGCCCCGGCCGCCGGCCCGGCATGGGCGTCTCCCGCGGGCCCTCCGCTGGCCG
GGGCTAGGGCCGGATGGAGCCGCGGGACGGTAGCCCGGAGGCCCGGAGCAGCGACTGCGAGTCGGCTTCCGCCTC
GTCCAGCGGCTCCGAGCGCGACGCCGGTCCCGAGCCGGACAAGGCGCCGCGGCGACTCAACAAGCGGCGCTTCCC
GGGGCTGCGGCTCTTCGGGCACAGGAAAGCCATCACCAAGTCTGGCCTCCAGCACCTGGCCCCCCCTCCGCCCAC
CCCTGGGGCCCGGTGCAGCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACTGGAGCGAGTCGGCGACATATGG
GGAGCACATCTGGTTCGAGACCAACGTGTCCGGGGACTTCTGCTACGTTGGGGAGCAGTACTGTGTAGCCAGGAT
GCTGCAGAAGTCAGTGTCTCGAAGAAAGTGCGCAGCCTGCAAGATTGTGGTGCACACGCCCTGCATCGAGCAGCT
GGAGAAGATAAATTTCCGCTGTAAGCCATCCTTCCGTGAATCAGGCTCCAGGAATGTCCTCGAGCCAACCTTTGT
ATGGCACCACTGGGTACACAGACGACGCCAGGACGGCAAGTGTCGGCACTGTGGGAAGGGATTCCAGCAGAAGTT
CACCTTCCACAGCAAGGAGATTGTGGCCATCAGCTGCTCGTGGTGCAAGCAGGCATACCACAGCAAGGTGTCCTG
CTTCGTGCTGCAGCAGATCGAGGAGCCGTGCTCGCTGGGGGTCCACGCAGCCGTGGTCATCCCGCCCACCTGGAT
CCTCCGCGCCCGGAGGCCCCAGAATACTCTGAAAGCAAGCAAGAAGAAGAAGAGGGCATCCTTCAAGAGGAAGTC
CAGCAAGAAAGGGCCTGAGGAGGGCCGCTGGAGACCCTTCATCATCAGGCCCACCCCCTCCCCCCTCATGAAGCC
CCTGCTGGTGTTTGTGAACCCCAAGAGTGGGGGCAACCAGGGTGCAAAGATCATCCAGTCTTTCCTCTGGTATCT
CAATCCCCGACAAGTCTTCGACCTGAGCCAGGGAGGGCCCAAGGAGGCGCTGGAGATGTACCGCAAAGTGCACAA
CCTGCGGATCCTGGCGTGCGGGGGCGACGGCACGGTGGGCTGGATCCTCTCCACCCTGGACCAGCTACGCCTGAA
GCCGCCACCCCCTGTTGCCATCCTGCCCCTGGGTACTGGCAACGACTTGGCCCGAACCCTCAACTGGGGTGGGGG
CTACACAGATGAGCCTGTGTCCAAGATCCTCTCCCACGTGGAGGAGGGGAACGTGGTACAGCTGGACCGCTGGGA
CCTCCACGCTGAGCCCAACCCCGAGGCAGGGCCTGAGGACCGAGATGAAGGCGCCACCGACCGGTTGCCCCTGGA
TGTCTTCAACAACTACTTCAGCCTGGGCTTTGACGCCCACGTCACCCTGGAGTTCCACGAGTCTCGAGAGGCCAA
CCCAGAGAAATTCAACAGCCGCTTTCGGAATAAGATGTTCTACGCCGGGACAGCTTTCTCTGACTTCCTGATGGG
CAGCTCCAAGGACCTGGCCAAGCACATCCGAGTGGTGTGTGATGGAATGGACTTGACTCCCAAGATCCAGGACCT
GAAACCCCAGTGTGTTGTTTTCCTGAACATCCCCAGGTACTGTGCGGGCACCATGCCCTGCGGCCACCCTGGGGA
GCACCACGACTTTGAGCCCCAGCGGCATGACGACGGCTACCTCGAGGTCATTGGCTTCACCATGACGTCATTGGC
CGCGCTGCAGGTGGGCGGACACGGCGAGCGGCTGACGCAGTGTCGCGAGGTGGTGCTCACCACATCCAAGGCCAT
CCCGGTGCAGGTGGATGGCGAGCCCTGCAAGCTTGCAGCCTCACGCATCCGCATTGCCCTGCGCAACCAGGCCAC
CATGGTGCAGAAGGCCAAGCGGCGGAGCGCCGCCCCCCTGCACAGCGACCAGCAGCCGGTGCCAGAGCAGTTGCG
CATCCAGGTGAGACGCGTCAGCATGCACGACTATGAGGCCCTGCACTACGACAAGGAGCAGCTCAAGGAGGCCTC
CGTGCCGCTGGGCACTGTGGTGGTCCCAGGAGACAGTGACCTAGAGCTCTGCCGTGCCCACATTGAGAGACTCCA
GCAGGAGCCCGATGGTGCTGGAGCCAAGTCCCCGACATGCCAGAAACTGTCCCCCAAGTGGTGCTTCCTGGACGC
CACCACTGCCAGCCGCTTCTACAGGATCAACCGAGCCCAGGAGCACCTCAACTATGTGACTGAGATCGCACAGGA
TGAGATTTATATCCTGGACCCTGAGCTGCTGGGGGGCATCGGCCCGGCCTGACCTCCCAACCCCCACTTCCCCTCT
CCCCACCTCACCCTGCTCACCCACGCCCCGGTCACTGCAAGGGGATGCTGCACCCCCTCAAGGTGAAGAGCTGAT
TGAGGCTGCCAAGAGGAACGACTTCTGTAAGCTCCAGGAGCTGCACCGAGCTGGGGGCGACATCATGCACCGAGA
CAAGCAGAGTCGCACGCTCCTGCACCACGCAGTCAGCACTGGCAGCAAGGATGTGGTCCGCTACCTGCTGGACCA
CGCTCCCCCAGAGATCCTTGATGCGGTGGAGGAAAACGGGGAGACCTGTTTGCACCAAGCAGCGGCCCTGGGCCA
GCGCACCATCTGCCACTACATCGTGGAGGCCGGGGCCAGACCAGCAGGGCGACACTCCCCGGCAGCAGGCTGAGA
AGGCTCAGGACACCGAGCTGGCGGCCTACCTGGAGAACCGGCAGCACTACCAGATGATCCAGCGGGAGGACCAGG
AGACGGCTGTGTAGCGGGCCGCCCACGGGCAGCAGGAGGGACAATGCGGCCAGGGGATGAGCGCCTTCCTTGCCC
ACCTCACTGCCACATTCCAGTGGGACGGCCACGGGGGGACCTAGGCCCCAGGGAAAGAGCCCCATGCCGCCCCCT
AAGGAGCCGCACAGACCTAGGGCTGGACTCAGGAGCTGGGGGGCCTCACCTGTTCCCCTGAGGACCCCGCCGGAC
CCGGAGGCTCACAGGGAACAAGACACGGCTGGGTTGGATATGCCTTTGCCGGGGTTCTGGGGCAGGGCGCTCCCT
GGCCGCAGCAGATGCCCTCCCAGGAGTGGAGGGGCTGGAGAGGGGAAGGCCTTCGGGAAGAGGCTTCCTGGGCCC
CCTGGTCTTCGGCCGGGTCCCCAGCCCCCGCTCCTGCCCCACCCCACCTCCCCCGGGCTTCCTCCCGGAAACTCA
GTGCCTGCTGCACTTGCCTGCCCTGCCTTGCTTGGCACCCGCTCCGGCGACCCTCCCCGCTCCTCTGTCATT
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FIGURE 3903A

TTTTTCTTTCCTGGCTGATGATTTGTCATTCTAGTCACTTCCTGCCTTGTGACCACACACCCAGGCTTGACAAAG
CTGTTCTGCAGATCAGAAAGAAGGGGTTCCTGGTCATACACCAGTACTACCAAGGACAGCTTTTTTCCTGCAAGA
TCTGTTACCTAAAGCAATAAAAAATGGCCAGAGGATCAGTGTCCGATGAGGAAATGATGGAGCTCAGAGAAGCTT
TTGCCAAAGTTGATACTGATGGCAATGGATACATCAGCTTCAATGAGTTGAATGACTTGTTCAAGGCTGCTTGCT
TGCCTTTGCCTGGGTATAGAGTACGAGAAATTACAGAAAACCTGATGGCTACAGGTGATCTGGACCAAGATGGAA
GGATCAGCTTTGATGAGTTTATCAAGATTTTCCATGGCCTAAAAAGCACAGATGTTGCCAAGACCTTTAGAAAAG
CAATCAATAAGAAGGAAGGGATTTGTGCAATCGGTGGTACTTCAGAGCAGTCTAGCGTTGGCACCCAACACTCCT
ATTCAGAGGAAGAAAAGTATGCCTTTGTCAACTGGATAAACAAAGCCCTGGAAAATGATCCTGATTGTCGGCATG
TCATCCCAATGAACCCAAACACGAATGATCTCTTTAATGCTGTTGGAGATGGCATTGTCCTTTGTAAAATGATCA
ACCTGTCAGTGCCAGACACAATTGATGAAAGAACAATCAACAAAAAGAAGCTAACCCCTTTCACCATTCAGGAAA
ATCTGAACTTGGCTCTGAACTCTGCCTCAGCCATCGGGTGCCATGTGGTCAACATAGGGGCTGAGGACCTGAAGG
AGGGGAAGCCTTATCTGGTCCTGGGACTTCTGTGGCAAGTCATCAAGATTGGGTTGTTTGCTGACATTGAACTCA
GCAGAAATGAAGCTCTGATTGCTCTTTTGAGAGAAGGTGAGAGCCTGGAGGATTTGATGAAACTCTCCCCTGAAG
AGCTCTTGCTGAGGTGGGCTAATTACCACCTGGAAAATGCAGGCTGCAACAAAATTGGCAACTTCAGTACTGACA
TCAAGGACTCAAAAGCTTATTACCACCTGCTTGAGCAGGTGGCTCCAAAAGGAGATGAAGAAGGTGTTCCTGCTG
TTGTTATTGACATGTCAGGACTGCGGGAGAAGGATGACATCCAGAGGGCAGAATGCATGCTGCAGCAGGCGGAGA
GGCTGGGCTGCCGGCAGTTTGTCACAGCCACAGATGTTGTCCGAGGGAACCCCAAGTTGAACTTGGCTTTTATTG
CCAACCTCTTTAACAGATACCCTGCCCTGCACAAACCAGAGAACCAGGACATTGACTGGGGGGGCTCTTGAAGGTG
AGACGAGAGAAGAGCGGACATTTAGGAACTGGATGAACTCCCTGGGTGTTAACCCTCGAGTCAATCATTTGTACA
GTGACTTATCAGATGCCCTGGTCATCTTCCAGCTCTATGAAAAGATCAAAGTTCCTGTTGACTGGAACAGAGTAA
ACAAACCGCCATACCCCAAACTGGGAGGCAATATGAAGAAGCTTGAGAATTGTAACTACGCGGTAGAATTGGGGA
AGAATCAAGCGAAGTTCTCCCTGGTTGGCATCGGTGGACAAGATCTCAATGAAGGAAACCGCACTCTCACACTGG
CCTTGATTTGGCAGCTAATGAGAAGGTATACACTGAATATCCTCGAAGAAATTGGTGGTGGCCAGAAGGTCAATG
ATGACATTATTGTCAACTGGGTGAATGAAACATTGAGGGAAGCAAAGAAAAGTTCATCCATCTCTAGTTTCAAGG
ACCCGAAGATTAGTACAAGTCTGCCTGTTCTGGACCTCATCGATGCCATCCAACCAGGTTCCATTAACTATGACC
TTCTGAAGACAGAAAATCTGAATGATGATGAGAAACTCAACAATGCAAAATATGCCATCTCTATGGCCCGAAAAA
TTGGAGCAAGAGTGTATGCCCTGCCAGAAGACCTGGTTGAAGTGAACCCCAAAATGGTCATGACCGTGTTTGCCT
GCCTCATGGGGAAAGGAATGAAGAGGGTGTGAGGCCCAATGGGGCTGGGTGGGAGGCGGTGCACTCACTCCTGAC
TGCCCGGCACAGATGCTCCAGGGATGATTCAAGCCATTCCAAAGTTCAACTTGGTGACACTCTATAAGATTCCAA
AAAGCACATATTAGTGCAGCCAAGTAGCCTCTCCTGTATTTAACAAAAAGTGCTTCATTCTTTGCAGGAGGCCCA
ACCTCCTATATATAGGTTTCTATTCTTGATTTATTTGCTTCTTCGAAAATCTAGAGGAAAAGAAAGAAGTTATTT
TCCAGGTACCCTTCTCGCTTTTGCCATTAGCCAAGGATAGAAGCTGCAGTGGTATTAATTTTGATATAATCTTTC
AAACCAGCTTCATGTGGCTTCCCTTTTCTTTGTTCAAGATGAGGGCCAGGAGGGGAAACATCACACCTGCCCTAA
ACCCTGTTCCTGGAGGTCAGCATTTGATCTGTTGCAAGCCCCTCTTTCTGTCCCCTCTTCCTACCCTGCCTCCCT
TGACTTTGCTCCTCACACTTTTGGAACCATGCCTTCCGGGGGGGCCCATCTCTTCTGGCCGTCCTTGTCTCTGGG
CCACTTGGAGTGTGTGATAAATCAGTCAAGCTGTTGAAGTCTCAGGAGTCTCTGGTAGCCTGCAGAAGTAAGCCT
CATCATCAGAGCCTTTCCTCAAAACTGGAGTCCCAAATGTCATCAGGTTTTGTTTTTTTTCAGCCACTAAGAACC
CCTCTGCTTTTAACTCTAGAATTTGGGCTTGGACCAGATCTAACATCTTGAATACTCTGCCCTCTAGAGCCTTCA
GCCTTAATGGAAGGTTGGATCCAAGGAGGGTGTAATGGAGCATCAAGCCACTCGGCGGCAGCATGGAGCTATAAC
TAAGCATCCTTTAGGGTTCTGCCTCTCCAGGCATTTAGCCCTCACATTAGATCTAGTTACTGTGGTATGGCTAAT
ACCTGTCAACATTTGGAGCAATCCTACCTTGCTTTTGCTTCTAGAGCTTAGCATATCTGATTGTTGTCAGGCCA
TATTATCAATGTTTACTTTTTGGTACTATAAAAGCTTTCTGCCACCCCTAAACTCCAGGGGGGACAATATGTGC
CAATCAATAGCACCCCTACTCACATACACACACACCTAGCCAGCTGTCAAGGGCAGAATGAATCTATGCTGGATA
AGAAATGGTGGAACTGCGTTATGAAGAGCTAATTTACTGGACAAAGAATTCCAAAGCAAAACCAGAACAGTATGA
ATTTGAGCAGGTCTCATAGGTTGAGCAATTTCCCCCTAAACCAACTGAAGGCTAAAAAGCAACAGGCCATTGTGA
ACCAATGCAAGACGCCCTCTATCATGGTGAAAAGCTCCATCAATGAGGTATCTTCTTTAGTGGTGGTATGTAATG
GAACTTAGCCATTTTTCAAAGCAATTGAAATGCATTGCTCTGGATCTGTTCCTTGGCAGTGGACTCAGAAAGCCA
ACATGTGGCTCCTCCCAGCCCATAACCAGTATTTTTGCTGCTTCTGAATACAAATTGGTTGGTTTTGACTTCAGA

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FIGURE 3903B

TTGAACTTACTGTAGCCTCAGATGATTTCCCCCCTCCGCCTCCAGGAAGAAAGAATGTTACTGCCTTAATAAAAA
ATGAAAAGAGAATGATGCTCAAAATCTTTCCAAATAAAATGTTCCCTAT

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FIGURE 3904

AAAGCGAGAGTGAGTGGGACCGGAGGGGCGGGGCATCATATGGGCGGGGCTGAGGCGAGGCCCCGGCGGCCATCT
TGAGCCCCGCCTTTTACTTCGGCCCGCTTCTTCTGGTCACTCCGCCACCGTAGAATCGCCTACCATTTGGTGCAA
GCAAAAAGCAATCAGCAATTGGACAGGAAAAGA**ATG**GCATTGAAGCAGATTTCCAGCAACAAGTGCTTTGGGGGA
TTGCAGAAAGTTTTTGAACATGACAGTGTTGAACTAAACTGCAAAATGAAATTTGCTGTCTACTTACCACCAAAG
GCAGAAACAGGAAAGTGCCCTGCACTGTATTGGCTCTCAGGTTTAACTTGCACAGAGCAAAATTTTATATCAAAA
TCTGGTTATCATCAGTCTGCTTCAGAACATGGTCTTGTTGTCATTGCTCCAGATACCAGCCCTCGTGGCTGCAAT
ATTAAAGGTGAAGATGAGAGCTGGGACTTTGGCACTGGTGCTGGATTTTATGTTGATGCCACTGAAGATCCTTGG
AAAACCAACTACAGAATGTACTCTTATGTCACAGAGGAGCTTCCCCAACTCATAAATGCCAATTTTCCAGTGGAT
CCCCAAAGGATGTCTATTTTTGGCCACTCCATGGGAGGTCATGGAGCTCTGATCTGTGCTTTGAAAAATCCTGGA
AAATACAAATCTGTGTCAGCATTTGCTCCAATTTGCAACCCTGTACTCTGTCCCTGGGGCAAAAAAGCCTTTAGT
GGATATTTGGGAACAGATCAAAGTAAATGGAAGGCTTATGATGCTACCCACCTTGTGAAATCCTATCCAGGATCT
CAGCTGGACATACTAATTGATCAAGGGAAAGATGACCAGTTTCTTTTAGATGGACAGTTACTCCCTGATAACTTC
ATAGCTGCCTGTACAGAAAAGAAAATCCCCGTTGTTTTTCGATTGCAAGAGGGTTATGATCATAGCTACTACTTC
ATTGCAACCTTTATTACTGACCACATCAGACATCATGCTAAATACCTGAATGCA**TGA**AAAAACTCCAAATAAGAG
AATCTCTTCAGGATTATAAAAGTTGTAAAATGCAACTGTATTGCTGAGCAAAAAAAAAAAAAATTCAAAACATTG
GATTTTATAGTGCTAAAAGGGCTTTATTCTATAGTTGAATCACCTCTGAATAAAGATATAAAACCT

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FIGURE 3905

MALKQISSNKCFGGLQKVFEHDSVELNCKMKFAVYLPPKAETGKCPALYWLSGLTCTEQNFISKSGYHQSASEHG
LVVIAPDTSPRGCNIKGEDESWDFGTGAGFYVDATEDPWKTNYRMYSYVTEELPQLINANFPVDPQRMSIFGHSM
GGHGALICALKNPGKYKSVSAFAPICNPVLCPWGKKAFSGYLGTDQSKWKAYDATHLVKSYPGSQLDILIDQGKD
DQFLLDGQLLPDNFIAACTEKKIPVVFRLQEGYDHSYYFIATFITDHIRHHAKYLNA

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FIGURE 3906

GGCCGGTGGCGGGACTCTGGGGAAA<u>ATG</u>GCTGCGTCTTCGAGTGGTGAGAAGGAGAAGGAGCGGCTGGGAGGCGG
TTTGGGAGTGGCGGGTGGTAACAGCACACGAGAGCGGCTGCTGTCTGCGCTTGAGGACTTGGAGGTCCTGTCTAG
GGAACTTATAGAAATGCTGGCAATTTCAAGAAACCAAAAGTTGTTACAGGCTGGAGAGGAAAACCAGGTCCTGGA
GTTGTTAATTCACCGAGATGGGGAATTTCAAGAACTAATGAAATTGGCACTTAATCAGGGAAAAATTCATCATGA
AATGCAAGTTTTAGAAAAAGAAGTAGAGAAGAGAGACAGTGATATTCAGCAGCTACAAAAACAGCTAAAGGAAGC
AGAACAAATACTGGCAACAGCTGTTTACCAAGCGAAGGAGAAACTCAAGTCAATAGAAAAAGCAAGAAAAGGTGC
TATCTCCTCTGAAGAAATAATTAAGTATGCACATAGGATCAGTGCAAGTAATGCTGTATGTGCTCCACTGACCTG
GGTTCCAGGGGACCCCCGGAGACCCTACCCAACTGATTTAGAGATGAGAAGTGGGTTACTGGGTCAGATGAACAA
TCCTTCCACTAATGGCGTGAATGGCCATTTACCAGGAGATGCACTTGCAGCAGGAAGATTGCCAGATGTCCTTGC
TCCACAGTATCCATGGCAGTCAAATGACATGTCGATGAATATGTTACCACCAAATCATAGTAGTGACTTTTTGTT
GGAACCTCCTGGGCATAATAAAGAAAATGAAGATGATGTAGAGATTATGTCAACGGACTCCTCAAGCAGTAGTAG
TGAGTCTGAT<u>TGA</u>AAAACTTAAAAGACAATATACAGAATTGAATACTGTAGAATTCTGTTTCTTTAACAGTAGCA
GGGAAATGTAAACTACAGGTGACAAAAAAATACCCAGGTAAACACTGGCTTTGGTAGAATTGTGCAGTCATTAAAA
GTCAAAATTTTTTGACTTTCTTTTTAAAGCCAAAGACCATAGTTTTAGTTTTAAGCCACTAGGTAGATATTTAGG
GGAATAGTCAAAATTTACTGTTGAAAAAGCAGTTGCTATGTGCTTTCTTACCCTGTTCTGTTCCAGTTTTGCTGG
ATTTGTACATAGCCATTCTAGAAATAGAGTTGAGGGAAATTATCCATATACATATCACTAATAGGCTTCTTGGAA
TTATTTAGAAAAGCATTTTTAAACTGGCAGTGGATGACTGAATAGGCATCATATTTCTTTTTGTGTGTCATTTAA
AAGTAACAAAAACTGCCATTTGACAGTAAAGGCTCTTGGCTTCTGTTGGAGGCATGGGAAATTGTCTCAATTTGT
ACAGTTTGTAATTGTAATTTTTGTAAATAAATTTGTTTGTACATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3907

MAASSSGEKEKERLGGGLGVAGGNSTRERLLSALEDLEVLSRELIEMLAISRNQKLLQAGEENQVLELLIHRDGE
FQELMKLALNQGKIHHEMQVLEKEVEKRDSDIQQLQKQLKEAEQILATAVYQAKEKLKSIEKARKGAISSEEIIK
YAHRISASNAVCAPLTWVPGDPRRPYPTDLEMRSGLLGQMNNPSTNGVNGHLPGDALAAGRLPDVLAPQYPWQSN
DMSMNMLPPNHSSDFLLEPPGHNKENEDDVEIMSTDSSSSSSESD

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FIGURE 3908

GCGAGATCCCTACCGCAGTAGCCGCCTCTGCCGCCGCGGAGCTTCCCGAACCTCTCAGCCGCCCGGAGCCGCTCC
CGGAGCCCGGCCGTAGAGGCTGCAATCGCAGCCGGGAGCCCGCAGCCCGCGCCCCGAGCCCGCCGCCGCCCTTCG
AGGGCGCCCCAGGCCGCGCC**ATG**GTGAAGGTGACGTTCAACTCCGCTCTGGCCCAGAAGGAGGCCAAGAAGGACG
AGCCCAAGAGCGGCGAGGAGGCGCTCATCATCCCCCCCGACGCCGTCGCGGTGGACTGCAAGGACCCAGATGATG
TGGTACCAGTTGGCCAAAGAAGAGCCTGGTGTTGGTGCATGTGCTTTGGACTAGCATTTATGCTTGCAGGTGTTA
TTCTAGGAGGAGCATACTTGTACAAATATTTTGCACTTCAACCAGATGACGTGTACTACTGTGGAATAAAGTACA
TCAAAGATGATGTCATCTTAAATGAGCCCTCTGCAGATGCCCCAGCTGCTCTCTACCAGACAATTGAAGAAAATA
TTAAAATCTTTGAAGAAGAAGAAGTTGAATTTATCAGTGTGCCTGTCCCAGAGTTTGCAGATAGTGATCCTGCCA
ACATTGTTCATGACTTTAACAAGAAACTTACAGCCTATTTAGATCTTAACCTGGATAAGTGCTATGTGATCCCTC
TGAACACTTCCATTGTTATGCCACCCAGAAACCTACTGGAGTTACTTATTAACATCAAGGCTGGAACCTATTTGC
CTCAGTCCTATCTGATTCATGAGCACATGGTTATTACTGATCGCATTGAAAACATTGATCACCTGGGTTTCTTTA
TTTATCGACTGTGTCATGACAAGGAAACTTACAAACTGCAACGCAGAGAAACTATTAAAGGTATTCAGAAACGTG
AAGCCAGCAATTGTTTCGCAATTCGGCATTTTGAAAACAAATTTGCCGTGGAAACTTTAATTTGTTCT**TGA**ACAG
TCAAGAAAAACATTATTGAGGAAAATTAATATCACAGCATAACCCCACCCTTTACATTTTGTGCAGTGATTATTT
TTTAAAGTCTTCTTTCATGTAAGTAGCAAACAGGGCTTTACTATCTTTTCATCTCATTAATTCAATTAAAACCAT
TACCTTAAAATTTTTTTCTTTCGAAGTGTGGTGTCTTTTATATTTGAATTAGTAACTGTATGAAGTCATAGATAA
TAGTACATGTCACCTTAGGTAGTAGGAAGAATTACAATTTCTTTAAATCATTTATCTGGATTTTTATGTTTTATT
AGCATTTTCAAGAAGACGGATTATCTAGAGAATAATCATATATATGCATACGTAAAAATGGACCACAGTGACTTA
TTTGTAGTTGTTAGTTGCCCTGCTACCTAGTTTGTTAGTGCATTTGAGCACACATTTTAATTTTCCTCTAATTAA
AATGTGCAGTATTTTCAGTGTCAAATATATTTAACTATTTAGAGAATGATTTCCACCTTTATGTTTTAATATCCT
AGGCATCTGCTGTAATAATATTTTAGAAAATGTTTGGAATTTAAGAAATAACTTGTGTTACTAATTTGTATAACC
CATATCTGTGCAATGGAATATAAATATCACAAAGTTGTTTAACTAGACTGCGTGTTGTTTTTCCCGTATAATAAA
ACCAAAGAATAGTTTGGTTCTTCAAATCTTAAGAGAATCCACATAAAGAAGAAACTATTTTTTAAAAATTCACT
TCTATATATACAATGAGTAAAATCACAGATTTTTTCTTTAAATAAAAATAAGTCATTTTAATAACTAAACCAGAT
TCTTTGTGGATACTATTAAAGTAACATTTAAGCCTCAACCTTG

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FIGURE 3909

MVKVTFNSALAQKEAKKDEPKSGEEALIIPPDAVAVDCKDPDDVVPVGQRRAWCWCMCFGLAFMLAGVILGGAYL
YKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQTIEENIKIFEEEEVEFISVPVPEFADSDPANIVHDFN
KKLTAYLDLNLDKCYVIPLNTSIVMPPRNLLELLINIKAGTYLPQSYLIHEHMVITDRIENIDHLGFFIYRLCHD
KETYKLQRRETIKGIQKREASNCFAIRHFENKFAVETLICS

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FIGURE 3910

TTTAGTAAATCACACAAAAATCCAGCAGAAATTGTGAAAATCCTGAAAGACAATTTGGCCATTTTGGAAAAGCAA
GACAAAAAGACAGACAAGGCTTCAGAAGAAGTGTCTAAATCACTGCAAGCAATGAAAGAAATTCTGTGTGGTACA
AACGAGAAAGAACCCCCAACAGAAGCAGTGGCTCAGCTAGCACAAGAACTCTACAGCAGTGGCCTGCTGGTGACA
CTGATAGCTGACCTGCAGCTGATAGACTTTGAGGGAAAAAAAGATGTGACCCAGATATTTAACAACATCTTGAGA
AGACAGATAGGCACTCGGAGTCCTACTGTGGAGTATATTAGTGCTCATCCTCATATCCTGTTTATGCTCCTCAAA
GGATATGAAGCCCCACAGATTGCCTTACGTTGTGGGATTATGCTGAGAGAATGTATTCGACATGAACCACTTGTC
AAAATCATCCTCTTTTCTAATCAATTCAGAGATTTCTTTAAGTACGTGGAGTTGTCAACATTTGATATTGCTTCA
GATGCCTTTGCTACTTTCAAGGATTTACTAACCAGACATAAAGTGTTGGTAGCAGACTTCTTAGAACAAAAATTAC
GACACTATTTTTGAAGACTATGAGAAATTGCTTCAGTCTGAGAATTATGTTACTAAGAGACAGTCTTTAAAGCTG
CTAGGGGAGCTGATCCTGGACCGTCACAACTTTGCCATCATGACAAAGTATATCAGCAAGCCGGAGAACCTGAAA
CTCATGATGAACCTCCTTCGGGATAAAAGTCCCAACATCCAGTTTGAAGCCTTTCATGTTTTTAAGGTGTTTGTG
GCCAGTCCTCACAAAACACAGCCTATTGTGGAGATCCTGTTAAAAAAATCAGCCCAAACTCATTGAGTTTCTGAGC
AGCTTCCAAAAAGAAAGGACGGATGATGAGCAGTTCGCTGACGAGAAGAACTACTTGATTAAACAGATCCGAGAC
TTGAAGAAAACGGCCCCTTGAAGAGCTCCCCGGCCCCTGTCACAGTCAGTCGTCTCATTGTCCAGTTTGTACAG
TGTGTCATTTCAGAAAGTCATCATTCTTGGGAAGACTTTGGAGGTGCCTATTTTTTCTGCTGTAATTGTTCTGGG
TAGATGGAGTATAAACATTTGAATGGAAAAAAATTAACCTAGAATAATATATTCATTTTAGTCAAGTCTGTGATT
ATTTATGTGAAATGAGAACCATTGTATCAGATGTTGATAAAAGCAATTTTAACTTGCAGATGTGAGCCCCTGGGC
ACAATGAGCCGCTAAATGGGAGCTCAATTGACAGGCATCACCAAGTCTTCAAGGAGGACTGAGTTCTCAGGGGAG
AACTGGGAATGGGGCCAGGGTGCAAAAATGCTTTGCCCATCTGTAGGTAGACACACAGATCGCTCAGGGCACTGA
GAGATCCCAGAAGGTAACGTTAATGTTTTCAGTCATTGTGTGTCCTTTGTTGCTGCCAATGTCTTTGGACTGTAA
TCAGTGCATCCACACCTCCCAGGATCCAGTGCTCCCTCTCAGCTCAGTCTCCCCTCTCTCCCTGTCCTGCATTCC
ATCCCAGCTCCTCAGCATGGCCTCAGTGGGCGCACCCATGCCTCCCGCAGTCCAGGTGAGCAGGGGAGCAACTGA
GCAGGAAGAGGATGGATCAACAAGGGTCACGGGGAATAGGGGACCCACGGGGTGTGACCTGCTTGCTAGAGAACT
GTGAACATGTGGCTCTGGATAGAGTGACTGCTGCTCCATATTAGCTTCCAGAGGGTGAGTGAGGGACAGAATATT
TCCTTCATAATGGTCATGGGTGAATGCTTTCTGCTGTAAGTGTCTTTTAGAGTAGGAATCAGCATAGTGGGATGC
CCAGCAGGCACAAACCATGGGTCCAGGGAGTCTCAGCGGGGAACTTCTATCAGTATCAATAACCATTGGAAGGAG
AAATGATTCATGTGTGAAAAAATTCTCAGATCCATCAATAAATTTTTTCAG

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FIGURE 3911

MKEILCGTNEKEPPTEAVAQLAQELYSSGLLVTLIADLQLIDFEGKKDVTQIFNNILRRQIGTRSPTVEYISAHP
HILFMLLKGYEAPQIALRCGIMLRECIRHEPLVKIILFSNQFRDFFKYVELSTFDIASDAFATFKDLLTRHKVLV
ADFLEQNYDTIFEDYEKLLQSENYVTKRQSLKLLGELILDRHNFAIMTKYISKPENLKLMMNLLRDKSPNIQFEA
FHVFKVFVASPHKTQPIVEILLKNQPKLIEFLSSFQKERTDDEQFADEKNYLIKQIRDLKKTAP

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FIGURE 3912

CACAAAGGCACCAAACCACAAAACGTCACACGTAAACATCATACGTGGCAACCACAAGCCAATCAGTTGGATATT
TCATTCATTGGTATACATATGGACTGTAAGGTGTCTTTCAGGTTGCAGAAAAG<u>ATG</u>GAAAAAAGGACATGTGCAC
TCTGCCCCAAAGATGTCGAATATAATGTCCTGTACTTTGCACAATCAGAGAATATAGCTGCTCATGAGAATTGTT
TGCTGTATTCTTCAGGACTTGTGGAATGTGAGGATCAGGATCCACTTAATCCTGATAGAAGTTTTGATGTGGAAT
CAGTAAAGAAAGAAATCCAGAGAGGAAGGAAGTTGAAATGCAAATTTTGTCATAAAAGAGGAGCCACCGTGGGAT
GTGATTTAAAAAACTGTAACAAGAATTACCACTTTTTCTGTGCCAAGAAGGACGACGCAGTTCCACAGTCTGATG
GAGTTCGAGGAATTTATAAACTGCTTTGCCAGCAACATGCTCAATTCCCGATCATCGCTCAAAGTGCTAAATTTT
CAGGAGTGAAAAGAAAAAGAGGAAGGAAGAAACCCCTCTCAGGCAATCATGTACAGCCACCCGAAACAATGAAAT
GTAATACATTCATAAGACAAGTGAAAGAAGAGCATGGCAGACACACAGATGCAACTGTGAAAGTTCCTTTTCTTA
AGAAATGCAAGGGAAGCAGGACTTCT<u>TAA</u>TTACTTACTTGAAGAAATATTAGACAAAGTTCATTCAATTCCAGAA
AAACTCATGGATGAGACTTACTTCAGAATCAGACTATGAAGAAATCGGGAGTGCACTTTTTGACTGTAGATTGTT
CGAAGACACATTTGTAAATTTTCAAGCAGCAATAGAGAAAAAAATTCATGCATCTCAACAAAGGTGGCAGCAGTT
GAAGGAAGAGATTGAGCTACTTCAGGACTTAAAACAAACCTTGTGCTCTTTTCAAGAAAATAGAGATCTTATGTC
AAGTTCTACATCAATATCATCCCTGTCTTATTAGGGATTACCATTTCCTAAGCCAAGAGTCATGTCAAATTGCAA
TCAGGCTCAAAACCAGAGACCAGGCTGTGAAATCCACACATCTTTAGAACTAGTCGTCTCCTCTTGGCCTCAGCA
GCTCTTCCCTGTTCTTACTGGTTGACATTTTGATCACTCTTTGCACACTCTTGTGTTTTTTGCTCACTGTCACAC
TCCCAGCACCTAGTATGCTCAGTAAATGTTTGTGGAATAAGTGCATAAAATGTTCTTAACCTTTGATTCTACTTA
CAGCCCATGATAGCCTCTTAGATATAATAAATTTGGATTATACTAAAA

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FIGURE 3913

MEKRTCALCPKDVEYNVLYFAQSENIAAHENCLLYSSGLVECEDQDPLNPDRSFDVESVKKEIQRGRKLKCKFCH
KRGATVGCDLKNCNKNYHFFCAKKDDAVPQSDGVRGIYKLLCQQHAQFPIIAQSAKFSGVKRKRGRKKPLSGNHV
QPPETMKCNTFIRQVKEEHGRHTDATVKVPFLKKCKGSRTS

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FIGURE 3914

TTGCTTTCCTCTGCCGCATGGTCCTGGGCCGTTGGCGTCGGAAGCCTGAAGC<u>ATG</u>GCGCTGAGTGGGAGCTGGG
GGCCGAGGCTGGCGGTTCGCTGCTGCTGTGCGCCGCGCTGCTGGCGGCGGGCTGCGCCCTGGGCCTGCGCCTGGG
CCGCGGGCAGGGGGCGGCGGACCGCGGGGCGCTCATCTGGCTCTGCTACGACGCGCTGGTGCACTTCGCGCTGGA
AGGCCCTTTTGTCTACTTGTCTTTAGTAGGAAACGTTGCAAATTCCGATGGCTTGATTGCTTCTTTATGGAAAGA
ATATGGCAAAGCTGATGCAAGATGGGTTTATTTTGATCCAACCATTGTGTCTGTGGAAATTCTGACCGTCGCCCT
GGATGGGTCTCTGGCATTGTTCCTCATTTATGCCATAGTCAAAGAAAAATATTACCGGCATTTCCTGCAGATCAC
CCTGTGCGTGTGCGAGCTGTATGGCTGCTGGATGACCTTCCTCCCAGAGTGGCTCACCAGAAGCCCCAACCTCAA
CACCAGCAACTGGCTGTACTGTTGGCTTTACCTGTTTTTTTTTAACGGTGTGTGGGTTCTGATCCCAGGACTGCT
ACTGTGGCAGTCATGGCTAGAACTCAAGAAAATGCATCAGAAAGAAACCAGTTCAGTGAAGAAGTTTCAG<u>TGA</u>AC
TTTCAAAACCATAAACACCATTATCTAACTTCATGAACCAGAATGAATCAAATCTTTTTGTTTGGCCAAAATGTA
ATACATTCCAGTCTACACTTTGTTTTTGTATTGTTGCTCCTGAACAACCTGTTTCAAATTGGTTTTAAGGCGACC
AGTTTTCGTTGTATTGTTGTTCAATTAAATGGTGATATAGGGAAAAGAGAACAAATTTGAATTTGTAATAATAAA
ATGTTTAATTATACAAAAAAAAAAAAAAAAAA

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FIGURE 3915

MGAEWELGAEAGGSLLLCAALLAAGCALGLRLGRGQGAADRGALIWLCYDALVHFALEGPFVYLSLVGNVANSDG
LIASLWKEYGKADARWVYFDPTIVSVEILTVALDGSLALFLIYAIVKEKYYRHFLQITLCVCELYGCWMTFLPEW
LTRSPNLNTSNWLYCWLYLFFFNGVWVLIPGLLLWQSWLELKKMHQKETSSVKKFQ

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FIGURE 3916

GCCATTTTGTATGCCAAGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGCAGCCATCCGAGACTGTGAC
AGAGCCATTGAAATAAATCCTGATTCAGCTCAGCCTTACAAGAGGCGGGGGAAAGCACACAGGCACAGAAAATTG
CAGAACATCAGAGAAAGTATGAGCGAAAACGTGAAGAGTGAGAGATCAAAGAAAGAATAGAACGAGTTAAGAAGG
CTCGAAAAGAGCATGAGAGAGCCCAGAGGGAGGAAGAAGCCAGATGACAGTCAGGAGCTCAGTATGGCTCTTTTC
CAGGTGGCTTTCCTGGGGGAATGCCTGGTAATTTTCCTGGAGGAATGGCTGGAATGGGAGGGGGCATACCTGGAA
TGGCCGGAATGCCTGGACTCAATGAAATTCTTAGTGATCCAGAGGTTCTTGCAGCCATGCAGGATCCAGAAGTTA
TGGTGGCCTTCCAGGATGTGGCTCAGAACCCAGCAAATATGTCAAAGTACCAGAGCAACCCAAAGGTTATGAATC
TCATCAGTAAATTGTCAGCCAAA

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FIGURE 3917

GCCGACGTAGACCCTGCTCTGCACGCCAGCCCGCCCGCACCCACCATGGCCACAGTTCAGCAGCTGGAAGGAAGA
TGGCGCCTGCTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCAAAAAATG
GGCGCAATGGCCAAGCCAGATTGTATCATCACTTGTGATGGCAGAAACCTCACCACAAAAACCGAGAGCACTTTG
AAAACAACACAGTTTTCTTGTACCCTGGGAGATGAGTTTGAAGAAACCACAGCTGATGGCAGAAAAACACAGACT
GTCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACAATAACAAGAAAA
TTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTAGAA
TAAAAATTCCATCATCACTTTGGACAGGAGTTAACTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCTCCA
TACTGTTTCTTTCTTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCACAAACATTTTACATGCAGTTATTTC
AAAGTGTGTTGGATTAATTAGGATTATCCCTTTGTTTAATAAAT

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FIGURE 3918

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TTTCTGCCCGTGGACGCCGCTGAAGAAGCATCGTTAAAGTCTCTCTTCACCTTGCCGTCATGTCTAAGTCAGCGT
CTCCAAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCTGA
GGAGCCATTTTGAGCAATGGGGAACGCTCACAGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG
GCTTTGGGTTTGTCACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATACAACGCCACACAAGGTGGATG
GAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAA
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAA
TTGAAGTAATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACC
ATGACTCCGTGGATAAGATTGTCATTCAGAAATACCATACTGTGAAGGGCCACAACTGTGAAGTTAGAAAAGCCC
TGCCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGGGGTTCTGGAAACTTTGGTGGTGGTC
GTGGAGATGGTTTCGGTGGGAATGACAACTTTGGTCGTGGAGGAAACTTCAGTGGTCGTGGTGGCTTTGGTGGCA
GCTGTGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAG
GTGGTGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATT
TTGGAGGCAGAAGCTCTGGCCCCTATGGCGGTGGAGGCCAATACTTTGCAAAACCACAAAACCAAGGTGGCTATG
GCGTTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGA
GAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGC
CTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAACTCGAGGACTGTATTTGT
GACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAAGCATTCCAACAAAGTGTTTTAATG
TAGATTTTTTTTTTGCACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATTGTGACGCTGAATAAATGTCT
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FIGURE 3919

MSKSASPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSRGFGFVTYATVEEVDAAMNTT
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVKGHNCEVRKALPKQEMASASSSQRGRRGSGNFGGGRGDGFGGNDNFGRGGNFSGR
GGFGGSCGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPQ
NQGGYGVSSSSSSYGSGRRF

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FIGURE 3920

ACCTTGCCGTCATGTCTAAGTCAGCGTCTCCAAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGA
GCTTTGAAACAACTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACAGACTGTGTGGTAATGA
GAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTCACATATGCCACTGTGGAGGAGGTGGATGCAGCTA
TGAATACAACGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAA
GACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAA
GAGATTATTTTGAACAGTATGGAAAAATTGAAGTAATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGG
GCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGTGGCTTTGGTGGCAGCTGTGGTGGTGGTGGATATGG
TGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGAAGCTACAATGATTT
TGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGG

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FIGURE 3921

TGTAGTGGAACCAAAGAGAGCTGTTTCTAGAGAGGATTCTGTAAAGCCCGTTGCCCATCTAACAGTGAAGAAAAT
TTTTGTTGGTGGTATTAAAGAAGATACAGAAGAATATAATTTGAGAGACTACTTTGAAAAGTGTAGCAAGATTGA
AACCATAGAAGTT<u>ATG</u>GAAGACAGGCAGAGTGGAAAAAAGAGAGGATTTGCTTTTGTAACTTTTGATGATCATGA
TATAATTGATAAAATTGTTGTTCAGAAATACCACACTATTAATGGGCATAATTGTGAAGTGAAAAAGGCCCTTTC
TAAACAAGAGATGCAGTCTGCTGGATCACAGAGAGGTCATGGAGGTGGATCTGGCAATTTTATGGGTCGCGGAGG
AAACTTTGGAGGTGCTGGAGGTAATTTTGGCCTTGGTGGAAACTTTGGTGGAAGAGGAGGCTATGGTGGTGGAGG
TGGTGGCAGCAGAGGAAGTTATGGAAGAGGTGATGGTGGATATAATAGATTTGGACGTGACGGTGGCAACTATGG
TGGTGGTCCTGGTTATAGTAGTAGAGGGGGCTATGGTGGTGGTGGAACAGGATATGGAAACCAAGGTGGTGGATA
TGGTGGAGGTGGTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTTGGCGGTGGTAACTATGGTGGTGGTGG
GAACTATAATGATTTTGGAAATCATAGTGGACAACAGCAATCAAATTATGGACCCATGAAAGGGGGCAGTTTTGG
TGGAAGAAGCTCGGGCAGTCCCTATGGTGGTGGTTATGGATCTGGTGGTGGAAGTGGTGGATATGGTAGCAGAAG
GTTC<u>TAA</u>AAACAGCAGAAAAGGGCTACAGTTCTTAGCAGGAGAGAGAGCAAGGAGTTGTCAGGAAAGCTGCAGGT
TACCTCGAGAGAGTTGTCCCAAATGCATTAGAGGAACTGTAAAAATCTGCCACAGAAGGAACAATGATCCATAGT
CAGAAAATTTACTGCAGCTTAAACAGGAAACCCTTCTTGTTCAGGACTCTCATAGCCACAGTTTGCAAAAAGTGC
AGCTATTGATTAATGCAATATAGTGTCAACTAGATGTAGATTCCTGAGGTCTTTTATCTGTTGTAGCTTTGTCTT
TTTCTTTTTCTTTTCATTACATCAGGTATATTGCCCTGTAAATTGTGGTAGTGGTACCAGGAATAAAAAATTAAG
GAATTTTTAACTTTTCAA

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FIGURE 3922

MEDRQSGKKRGFAFVTFDDHDIIDKIVVQKYHTINGHNCEVKKALSKQEMQSAGSQRGHGGGSGNFMGRGGNFGG
AGGNFGLGGNFGGRGGYGGGGGGSRGSYGRGDGGYNRFGRDGGNYGGGPGYSSRGGYGGGGTGYGNQGGGYGGGG
GGYDGYNEGGNFGGGNYGGGGNYNDFGNHSGQQQSNYGPMKGGSFGGRSSGSPYGGGYGSGGGSGGYGSRRF

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FIGURE 3923

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GGTACGTGCGCTCGCGGTTCTCTCGCGGAGGTCGGCGGTGGCGGGAGCGGGCTCCGGAGAGCCTGAGAGCACGGT
GGGGCGGGGCGGGAGAAAGTGGCCGCCCGGAGGACGTTGGCGTTTACGTGTGGAAGAGCGGAAGAGTTTTGCTTT
TCGTGCGCGCCTTCGAAAACTGCCTGCCGCTGTCTGAGGAGTCCACCCGAAACCTCCCCTCCTCCGCCGGCAGCC
CCGCGCTGAGCTCGCCGACCCAAGCCAGCGTGGGCGAGGTGGGAAGTGCGCCCGACCCGCGCCTGGAGCTGCGCC
CCCGAGTGCCCATGGCTACAAGGGTGCTGAGCATGAGCGCCCGCCTGGGACCCGTGCCCCAGCCGCCGGCGCCGC
AGGACGAGCCGGTGTTCGCGCAGCTCAAGCCGGTGCTGGGCGCCGCGAATCCGGCCCGCGACGCGGCGCTCTTCC
CCGGCGAGGAGCTGAAGCACGCGCACCACCGCCCGCAGGCGCAGCCCGCGCCCGCGCAGGCCCCGCAGCCGGCCC
AGCCGCCCGCCACCGGCCCGCGGCTGCCTCCAGAGGACCTGGTCCAGACAAGATGTGAAATGGAGAAGTATCTGA
CACCTCAGCTTCCTCCAGTTCCTATAATTCCAGAGCATAAAAAGTATAGACGAGACAGTGCCTCAGTCGTAGACC
AGTTCTTCACTGACACTGAAGGGGTTACCTTACAGTATCAACATGAACGTCTTCCTCCCTGACATCACTCACCTGA
GAACTGGCCTCTACAAATCCCAGAGACCGTGCGTAACACACATCAAGACAGAACCTGTTGCCATTTTCAGCCACC
AGAGTGAAACGACTGCCCCTCCTCCGGCCCCGACCCAGGCCCTCCCTGAGTTCACCAGTATATTCAGCTCACACC
AGACCGCAGCTCCAGAGGTGAACAATATTTTCATCAAACAAGAACTTCCTACACCAGATCTTCATCTTTCTGTCC
CTACCCAGCAGGGCCACCTGTACCAGCTACTGAATACACCGGATCTAGATATGCCCAGTTCTACAAATCAGACAG
CAGCAATGGACACTCTTAATGTTTCTATGTCAGCTGCCATGGCAGGCCTTAACACACACACCTCTGCTGTTCCGC
AGACTGCAGTGAAACAATTCCAGGGCATGCCCCCTTGCACATACACAATGCCAAGTCAGTTTCTTCCACAACAGG
CCACTTACTTTCCCCCGTCACCACCAAGCTCAGAGCCTGGAAGTCCAGATAGACAAGCAGAGATGCTCCAGAATT
TAACCCCACCTCCATCCTATGCTGCTACAATTGCTTCTAAACTGGCAATTCACAATCCAAATTTACCCACCACCC
TGCCAGTTAACTCACAAAACATCCAACCTGTCAGATACAATAGAAGGAGTAACCCCGATTTGGAGAAACGACGCA
TCCACTACTGCGATTACCCTGGTTGCACAAAAGTTTATACCAAGTCTTCTCATTTAAAAGCTCACCTGAGGACTC
ACACTGGTGAAAAGCCATACAAGTGTACCTGGGAAGGCTGCGACTGGAGGTTCGCGCGATCGGATGAGCTGACCC
GCCACTACCGGAAGCACACAGGCGCCAAGCCCTTCCAGTGCGGGGTGTGCAACCGCAGCTTCTCGCGCTCTGACC
ACCTGGCCCTGCATATGAAGAGGCACCAGAACTGAGCACTGCCCGTGTGACCCGTTCCAGGTCCCCTGGGCTCCC
TCAAATGACAGACCTAACTATTCCTGTGTAAAAACAACAAAAACAAACAAAAGCAAGAAAACCACAACTAAAACT
GGAAATGTATATTTTGTATATTTGAGAAAACAGGGAATACATTGTATTAATACCAAAGTGTTTGGTCATTTTAAG
AATCTGGAATGCTTGCTGTAATGTATATGGCTTTACTCAAGCAGATCTCATCTCATGACAGGCAGCCACGTCTCA
ACATGGGTAAGGGGTGGGGGTGGAGGGGAGTGTGTGCAGCGTTTTTACCTAGGCACCATCATTTAATGTGACAGT
GTTCAGTAAACAAATCAGTTGGCAGGCACCAGAAGAAGAATGGATTGTATGTCAAGATTTTACTTGGCATTGAGT
AGTTTTTTTCAATAGTAGGTAATTCCTTAGAGATACAGTATACCTGGCAATTCACAAATAGCCATTGAACAAATG
TGTGGGTTTTTAAAAATTATATACATATATGAGTTGCCTATATTTGCTATTCAAAATTTTGTAAATATGCAAATC
AGCTTTATAGGTTTATTACAAGTTTTTTAGGATTCTTTTGGGGAAGAGTCATAATTCTTTTGAAAATAACCATGA
ATACACTTACAGTTAGGATTTGTGGTAAGGTACCTCTCAACATTACCAAAATCATTTCTTTAGAGGGAAGGAATA
ATCATTCAAATGAACTTTAAAAAAGCAAATTTCATGCACTGATTAAAATAGGATTATTTTAAATACAAAAGGCAT
TTTATATGAATTATAAACTGAAGAGCTTAAAGATAGTTACAAAATACAAAAGTTCAACCTCTTACAATAAGCTAA
ACGCAATGTCATTTTTAAAAAGAAGGACTTAGGGTGTCGTTTTCACATATGACAATGTTGCATTTATGATGCAGT
TTCAAGTACCAAAACGTTGAATTGATGATGCAGTTTTCATATATCGAGATGTTCGCTCGTGCAGTACTGTTGGTT
AAATGACAATTTATGTGGATTTTGCATGTAATACACAGTGAGACACAGTAATTTTATCTAAATTACAGTGCAGTT
TAGTTAATCTATTAATACTGACTCAGTGTCTGCCTTTAAATATAAATGATATGTTGAAAACTTAAGGAAGCAAAT
GCTACATATATGCAATATAAAATAGTAATGTGATGCTGATGCTGTTAACCAAAGGGCAGAATAAATAAGCAAAAT
GCCAAAAGGGGTCTTAATTGAAATGAAAATTTAATTTTGTTTTTAAAATATTGTTTATCTTTATTTATTTTGTGG
TAATATAGTAAGTTTTTTTAGAAGACAATTTTCATAACTTGATAAATTATAGTTTTGTTTGTTAGAAAAGTTGCT
CTTAAAAGATGTAAATAGATGACAAACGATGTAAATAATTTTGTAAGAGGCTTCAAAATGTTTATACGTGGAAAC
ACACCTACATGAAAAGCAGAAATCGGTTGCTGTTTTGCTTCTTTTTCCCTCTTATTTTTGTATTGTGGTCATTTC
CTATGCAAATAATGGAGCAAACAGCTGTATAGTTGTAGAATTTTTTGAGAGAATGAGATGTTTATATATTAACGA
CAATTTTTTTTTTGGAAAATAAAAAGTGCCTAAAAG
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FIGURE 3924

CGCCGACGCAGACCACTCTCTGCATGCCAGCCCGCCCGCACCCACCATGGCCACAGTTCAGCAGCTGGAAGGAAG
ATGGCGCCTGGTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAAAT
GGGCGCAATGGCCAAGCCAGATTGTATTGTCACTTGTGATGGCAAAAACCTCACCATAAAAACTGAGAGCACTTT
GAAAACAACACAGTTTTCTTGTCCCCTGGGAGAGAAGTTTGAAGAAACCACAGCTGATGGCAGAAAAACTCAGAC
TGTCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACAATAACAAGAAA
ATTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACCATGTCGCCTGTACTCGGATCTATGAAAAAGTAGA
ATAAAAATTCCATCATCACTTTGGACAGGAGTTAACTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCTCC
ATACTGTTTCTTTTTTTTTTTTTCCATTACTGCGTTCAATTATCTTTATCACGAACATTTTACATGCAGCTATTTC
AAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAATGCGTTTGTGCTAATAAAAAAAGAAAAA
GAAAAA

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FIGURE 3925

GCGGTGGCAGCCGCTCGCTGAGGTAGTCTCTCGCGGCGCCGGGGATCCCTGAACACAGACAGCGCGGGACTGAGA
AGGAAAGCTTCTTTCTGGGCAGCCAGAGCCGCAAAGGTGGAGCCGCGTTGGCGCCCTCCGCGGGACCAGCGCCTC
GGATGCGGGCGGAGCGCGGGGGGCCGCGGCTGCGGGAGCGCGAAGCGGGGGGCCAGGGGCGCCTCATGTGAGAGC
GGCGGGACCTGCAGCCGCCGCCGTCCCCGGAGCACGGGGTGGTGTGTGGGGGAAGCCGCCCCCGGCAGCAGGATG
AAACGAGGAGGAAGAGATAGTGACCGTAATTCATCAGAAGAAGGAACTGCAGAGAAATCCAAGAAACTGAGGACT
ACAAATGAGCATTCTCAGACTTGTGATTGGGGTAATCTCCTTCAGGACATTATTCTCCAAGTATTTAAATATTTG
CCTCTTCTTGACCGGGCTCATGCTTCACAAGTTTGCCGCAACTGGAACCAGGTATTTCACATGCCTGACTTGTGG
AGATGTTTTGAATTTGAACTGAATCAGCCAGCTACATCTTATTTGAAAGCTACCCATCCAGAGCTGATCAAACAG
ATTATTAAAAGACATTCAAACCATCTACAATATGTCAGCTTCAAGGTGGACAGCAGCAAGGAATCAGCTGAAGCA
GCTTGTGATATACTATCGCAACTTGTGAATTGCTCTTTAAAAACACTTGGACTTATTTCAACTGCTCGACCAAGC
TTTATGGATTTACCAAAGTCTCACTTTATCTCTGCACTGACAGTTGTGTTCGTAAACTCCAAATCCCTGTCTTCG
CTTAAGATAGATGATACTCCAGTAGATGATCCATCTCTCAAAGTACTAGTGGCCAACAATAGTGATACACTCAAG
CTGTTGAAAATGAGCAGCTGTCCTCATGTCTCTCCAGCAGGTATCCTTTGTGTGGCTGATCAGTGTCACGGCTTA
AGAGAACTAGCCCTGAACTACCACTTATTGAGTGATGAGTTGTTACTTGCATTGTCTTCTGAAAAACATGTTCGA
TTAGAACATTTGCGCATTGATGTAGTCAGTGAGAATCCTGGACAGACACACTTCCATACTATTCAGAAGAGTAGC
TGGGATGCTTTCATCAGACATTCACCCAAAGTGAACTTAGTGATGTATTTTTTTTATATGAAGAAGAATTTGAC
CCCTTCTTTCGCTATGAAATACCTGCCACCCATCTGTACTTTGGGAGATCAGTAAGCAAAGATGTGCTTGGCCGT
GTGGGAATGACATGCCCTAGACTGGTTGAACTAGTAGTGTGTGCAAATGGATTACGGCCACTTGATGAAGAGTTA
ATTCGCATTGCAGAACGTTGCAAAAATTTGTCAGCTATTGGACTAGGGGAATGTGAAGTCTCATGTAGTGCCTTT
GTTGAGTTTGTGAAGATGTGTGGTGGCCGCCTATCTCAATTATCCATTATGGAAGAAGTACTAATTCCTGACCAA
AAGTATAGTTTGGAGCAGATTCACTGGGAAGTGTCCAAGCATCTTGGTAGGGTGTGGTTTCCCGACATGATGCCC
ACTTGGTAAAAACTGCATGATGAATAGCACCTTAATTTCAAGCAAATGTATTATAATTAAAGTTTTATTTGCTGT
AGTTCTGATATAATTCTACTATTTTGTGGCACAGAAATTTGATATCTTCAGTCAGTATATGTAAAGATTGTTTAT
CGGAAGACCCATGAATGAGTTTTGGTCAGAAAATTCCACTTGTTTCCTTAGTGTAATAGCAGTCATATCTCCGAA
TTTTTTTTAATGTGGTTCGGATGTGAAATAACCAGTTATACGTATTAAACAGTTTACAGTCTAAAGGAAACAAAA
CCTATATGTTATAATATCCAAGAAGTACTAATAGGTTTTCTGAAATGTTATATTCTCTATGCATTTAAAAAAAAA
TGTAAACTTGACATTTTAGGGTCTTCAGTTACACATACACCTGTTATAAGGTGTTTAATATAGCTCAGGAAAGTG
AGCATTTTGTGAGAAAAATGAATATATCATATCTAATGGAAAAGATTGGATGAATGTTCTCAAATGTTACAAAGC
TGTTTAAAGAAAAAGGTATATATAAGTAATCAGAACACTTAGAAGACTGATAGATGTCACACAGTGGTATTATAG
AAGGATAATACAGAGCCAAGATCAAATTAAAAGACAATAAATGGAACAGAAGGGAGGCAGTGTTTAGCTTTGTAT
AAACTTTTAGGTTTGCTCTGTAATCTGCTAAACCATATACATTCTTTTGTGATATGTTATTATGTATGTGGCACT
TGAGGCACTGTATGTAAAGTAAGGAATGCTTTACTAGTTCTCCTTGGTTTTATCTTTGTTTAAACTAGCTTTAAA
GTATTAAACAATAATTGAAATGAAAAGCTTACCTATTTTAAAAAGCCAAATTTAAATAAATATAGAACTTTAAAA
TGTTTATCAGTTGTTTCCATGAAAGAATATTAGTTTCCAGTAAATTTTAGTGATGGCTCACTCACTTTTCTATTT
TGGAATTACATAGTTATGTAAGTAAAATTTTTAAAAATCATAAAGGGAGCACCATTGTACAGTCTAGCATAAACA
GCAAATTTTAAAGAGGACATATTTAAGTTCATAATCATATTTTTCAGTAAATATTGCTCAGTGAACTGGAAAACT
TTAATAGAAAAATGTCTGCAGTTTTGTGATTGTTAATTTGGTTAAACCGATATTTTATATTATTTAAGTTAGGTA
ACATTTTATATTACTTTCATATGAATAAAAGTAATCCATGCATTGTAGAGTCTATAAAATGTTGAGTTTTAAAAG
ATGATATAAACTTTGATGCTGGGCACTAGTGCTAGTAGATATTACTACCCTCCTGAGGGAAATCAGAAATGATTT
AACCCCGGTGGAATACATTAATTCTTAAAGCGGCTCTTTTCAGTGGTGTGACTTTTAGATTGTGTCTCAGTGGTT
GAGGAAGCTAACAGTCTTAGATCTACTTTTAAAACGGATGGCCTTCTTAAGAATAAAGCAAAAGGTGATTTTCTA
CATAATTTTTGCTTTCCAAAAGTGATGATATGCTCTCCTACAGCAACATATGAGAAGAAAAAAGGCTTATCTAGA
TTCGAAAATTAACAGCAATTATAGTAATATATCCCCTCCTTCAAATAGTAAAAAGCTCTGATTGTACAAGAATT
ACCTGTGCTAGTCAAGTTGTTGTTTTTCCTTGAACAACTTTGGAAAAATGGATTTGACAGTACATAATCAGTTCT
ACTAACCAAAGCTTGTATTTGGAAATTTACTTTTTGTACAAATTGAATTATATAATGCTTAAAATACTTTGTCAC
TTTATAAGCAAAATGCATAGTACTTAATTTGTTTATACTGTAAAGTATATGTTAAATGCTTTTATCACTTTGAGA
ATAAAAAGTTACTAATGC

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FIGURE 3926

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ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTTCCTCCTTGCTCGCCGCAGCCGCCTCCGCCGCGCGCCTCCTC
CGCCGCCGCGGACTGCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTAATCCCCTGCATCGGA
TCACCGGCGTGCCCCACCATGTCAGACGCAGCCGTAGACGCCAGCTCCGAAATCACCATCAAGGACTTAAAGGAG
AAGAAGGAAGTTGTGGAAGAGGCAGAAAATGGAAGAGACGCCCCTGCTAACGGGAATGCTAATGAGGAAAATGGG
GAGCAGGAAGCTGACAGTGAAGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAGAAGAAGGT
GATGGTGAGGAAGAGGATGGAGATGAAGATGAGGAAGCTGAGTCACCTACGGGCAAGCGGGCAGCTGAAGATGAT
GATACGCGCTCTCCACCACCCAACCCAAACCATGAGAATTTGCAACAGGGGAGGAAAAAAGAACCAAAACTTCCA
AGGCCATGCTTTTTTTCTTAAAAGTACTTTAAAAAGGAAATTTGTTTGTATTTTTTATTTACATTTTATATTTTT
ATACATATTGTTAGGGTCAGCCATTTTTAATGATCTCGGATGACCAAACCAGCCTTGGGAGCGTTCTGTCCTACT
TCTGACTTTACTTGTGGTGTGACCATGTTCATTATAAT
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FIGURE 3927

MSDAAVDTSSEITTKDLQEKKEVVEEAENGRDAPANGNANEENGEQEADNEVDEEEEEGGEEEEEEEGDGEEEDG
DEDEEAETATGKRAAEDDEDDTRSPPPNPNHENLQQGRKKEPKLPRPCFFS

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FIGURE 3928

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ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTTCCTCCTTGCTCGCCGCAGCCGCCTCCGCCGCGCGCCTCCTC
CGCCGCCGCGGACTGCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTAATCCCCTGCATCGGA
TCACCGGCGTGCCCCACCATGTCAGACGCAGCCGTAGACGCCAGCTCCGAAATCACCATCAAGGACTTAAAGGAG
AAGAAGGAAGTTGTGGAAGAGGCAGAAAATGGAAGAGACGCCCCTGCTAACGGGAATGCTAATGAGGAAAATGGG
GAGCAGGAAGCTGACAGTGAAGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAGAAGAAGGT
GATGGTGAGGAAGAGGATGGAGATGAAGATGAGGAAGCTGAGTCACCTACGGGCAAGCGGGCAGCTGAAGATGAT
GAGGATGACGATGTCGATACCAAGAAGCAGAAGACCGACGAGGATGACTAGACAGCAAAAAAGGAAAAGTTAAAC
TAAAAAAAAAGGCCGCCGTGACCTATTCACCCTCCACTTCCCGTCTCAGAATCTAAACGTGGTCACCTTCAAGTA
GAGAGGCCCGCCTGCCCACCGTGGGCAGTGCCACCCACAGATGATACGCGCTCTCCACCACCCAACCCAAACCAT
GAGAATTTGCAACAGGGGAGGAAAAAAGAACCAAAACTTCCAAGGCCATGCTTTTTTTCTTAAAAGTACTTTAAA
AAGGAAATTTGTTTGTATTTTTTATTTACATTTTATATTTTTATACATATTGTTAGGGTCAGCCATTTTTAATGA
TCTCGGATGACCAAACCAGCCTTGGGAGCGTTCTGTCCTACTTCTGACTTTACTTGTGGTGTGACCATGTTCATT
ATAATCTCAAAGGAGAAAAAAACCTTGTAAAAAAAGCAAAAATGACAACAGAAAAACAATCTTATTCTGAGCATT
CCAGTAACTTTTTTGTGTATGTACTTAGCTGTACTATAAGGAGTTGGTTTGTATGAGATGGTTAAAAAGGCCAAA
GATAAAAGGTTTATTTTTTTTCCTTTTTTGTCTATGAAGTTGCTGTTTATTTTTTTTGGCCTGTTTGATGTATGT
GTGAAACAATGTTGTCCAACAATAAACAGGAATTTTATTTTGCTGAGTTGTTCT
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FIGURE 3929

MSDAAVDASSEITIKDLKEKKEVVEEAENGRDAPANGNANEENGEQEADSEVDEEEEEGGEEEEEEEEGDGEEED
GDEDEEAESPTGKRAAEDDEDDDVDTKKQKTDEDD

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FIGURE 3930

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ATGGCGGCGGCCGCGGCGGAGCAGCAACAGTTCTACCTGCTCCTGGGAAACCTGCTCAGCCCCGACAATGTGGTC
CGGAAACAGGCAGAGGAAACCTATGAGAATATCCCAGGCCAGTCAAAGATCACATTCCTCTTACAAGCCATCAGA
AATACAACAGCTGCTGAAGAGGCTAGACAAATGGCCGCCGTTCTCCTAAGACGTCTCTTGTCCTCTGCATTTGAT
GAAGTCTATCCAGCACTTCCCTCTGATGTTCAGACTGCCATCAAGAGTGAGCTACTCATGATTATTCAGATGGAA
ACACAATCTAGCATGAGGAAAAAAGTTTGTGATATTGCGGCAGAACTGGCCAGGAATTTAATAGATGAGGATGGC
AATAACCAGTGGCCCGAAGGTTTGAAGTTCCTTTTTGATTCAGTCAGCTCTCAAAATGTGGGACTGCGGGAAGCT
GCCCTTCACATTTTCTGGAACTTTCCTGGAATTTTTGGGAACCAGCAACAACACTATTTAGATGTCATCAAACGA
ATGTTAGTTCAGTGTATGCAAGATCAGGAACACCCGTCGATCAGGACGTTATCTGCTAGAGCTACAGCTGCATTT
ATACTTGCAAATGAGCATAATGTTGCTCTGTTCAAACATTTTGCAGACTTGCTACCGGGATTCCTACAGGCGGTA
AATGACTCGTGCTACCAGAATGATGATTCTGTCCTAAAATCCCTCGTTGAGATTGCAGATACTGTTCCAAAGTAT
TTGCGTCCTCACTTGGAAGCAACTCTACAGCTAAGTCTAAAGTTGTGTGGAGACACTAGCCTCAACAATATGCAA
CGCCAGCTTGCCCTTGAAGTGATCGTCACCCTCTCTGAGACTGCAGCTGCTATGTTAAGAAAACATACCAATATT
GTTGCACAGACTATTCCTCAGATGTTAGCAATGATGGTTGATTTGGAAGAAGATGAGGACTGGGCAAATGCAGAT
GAACTAGAAGATGATGATTTTGACAGCAATGCAGTTGCAGGCGAGAGTGCTCTAGATCGAATGGCTTGCGGACTT
GGTGGAAAGCTCGTTCTGCCGATGATCAAGGAACACATTATGCAAATGCTTCAAATCCTGACTGGAAATACCGG
CATGCAGGATTGATGGCCTTATCTGCCATTGGTGAAGGGTGCCACCAGCAAATGGAAGGAATTCTAAATGAGATC
GTAAATTTTGTTTTACTTTTTCTCCAGGATCCTCATCCAAGAGTAAGGTATGCAGCCTGTAATGCCGTGGGACAG
ATGGCTACAGATTTTGCACCTGGTTTCCAAAAGAAATTTCATGAGAAGGTGATTGCAGCTCTGCTGCAGACCATG
GAAGACCAAGGCAATCAACGTGTGCAGGCCCATGCAGCTGCTGCCCTCATTAACTTTACTGAAGACTGTCCCAAG
TCACTACTTATTCCATACTTGGATAATTTGGTGAAACATCTGCATTCCATTATGGTACTGAAGCTTCAAGAGCTG
ATTCAGAAAGGCACCAAGTTAGTTTTGGAACAAGTTGTGACATCCATTGCATCAGTTGCCGATACTGCAGAAGAA
AAATTTGTCCCCTACTATGATTTATTTATGCCATCACTGAAGCACATCGTTGAGAATGCGGTTCAAAAAGAACTG
AGACTTCTGAGAGGAAAAACTATTGAATGCATTAGCCTCATTGGTCTGGCTGTTGGGAAGGAAAAATTCATGCAG
GATGCATCAGATGTGATGCAGCTTTTGTTAAAGACCCAGACAGACTTCAATGATATGGAAGATGATGATCCTCAG
ATCTCTTACATGATCTCAGCATGGGCCAGAATGTGCAAAATCCTTGGAAAAGAATTTCAGCAATACCTTCCAGTG
GTTATGGGGCCTTTAATGAAGACGGCTTCAATTAAGCCCGAAGTAGCCCTTTTAGATACCCAAGACATGGAGAAT
ATGAGTGATGATGATGGTTGGGAATTTGTGAACCTTGGAGATCAGCAAAGCTTTGGTATTAAAACTGCAGGACTA
GAAGAAAAATCAACTGCTTGCCAGATGTTGGTTTGCTATGCTAAGGAGTTAAAGGAAGGCTTTGTGGAGTACACC
GAACAGGTTGTCAAACTGATGGTCCCTTTACTGAAATTTATTTCCACGATGGTGTTCGAGTGGCAGCAGCGGAA
TCCATGCCTCTTCTCCTGGAGTGTGCAAGAGTCCGTGGTCCTGAGTATCTCACACAGATGTGGCATTTTATGTGT
GATGCTCTAATTAAGGCCATTGGTACAGAACCAGATTCAGACGTCCTCTCAGAAATAATGCATTCTTTTGCAAAG
TGCATTGAAGTAATGGGAGATGGATGCCTTAATAATGAACACTTTGAAGAACTGGGAGGTATATTGAAAGCAAAG
CTTGAAGAACATTTTAAAAATCAAGAATTACGACAAGTTAAAAGACAAGATGAAGACTATGATGAACAGGTCGAA
GAGTCACTACAAGATGAGGATGATAATGATGTTTATATTCTGACCAAAGTGTCAGATATTTTACACTCAATATTC
AGTAGCTACAAAGAAAAGGTGTTACCATGGTTTGAACAGCTGCTTCCATTAATTGTCAACCTCATTTGTCCACAT
AGACCATGGCCAGACAGACAATGGGGATTATGCATCTTTGATGATGTCATAGAACACTGTAGTCCAGCCTCATTT
AAATACGCAGAATATTTCTTAAGACCAATGCTCCAATATGTATGTGACAACAGCCCAGAAGTCAGGCAAGCAGCT
GCATATGGCCTGGGAGTCATGGCACAGTACGGTGGAGATAATTATCGCCCTTTTTGTACAGAAGCACTTCCCCTG
CTGGTAAGAGTTATTCAGTCTGCGGATTCTAAGACCAAAGAAAATGTCAATGCTACAGAGAACTGCATCTCAGCA
GTAGGGAAAATCATGAAGTTCAAGCCTGACTGTGTAAACGTTGAAGAGGTCCTTCCACACTGGTTGTCTTGGCTT
CCACTACATGAAGATAAAGAAGAAGCTGTTCAGACTTTCAATTATCTGTGTGACCTGATTGAAAGTAATCATCCA
ATTGTTCTTGGCCCAAACAATACCAATCTGCCCAAAATATTTAGTATAATTGCGGAAGGAGAAATGCACGAGGCA
ATTAAACATGAAGATCCTTGTGCCAAACGTCTGGCCAATGTCGTTCGCCAAGTACAGACTTCTGGAGGACTGTGG
ACTGAGTGCATAGCACAGCTCAGTCCTGAGCAGCAGGCCGCCATTCAGGAGCTCCTGAACTCTGCGTGA
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FIGURE 3931

ATGTTCACCAGCACCGGCTCCAGTGGGCTCTGTGAGTACCGGCCTCCGCCATCCTGGCTGCCCCCTACACGCCAC
CCTAGGCACCTCTTTGAGGAGGCTGGGGCAGCGGGGACCCTCGGGTTTGCCGGAGGTGGTGGGGCCGACCCTCCA
GACCCGCGTCCGAACCCTGCTAGTTCCCGGTCTTGGGGGTCAGCGGAAACCGCCCCCATTTCGGCCTGGAGGGGC
GAATGGGGACAAAGCCCCGCCGCCCGCCCCGACCCCACCTGGTATCCCCAGGTGCTCTGCCCAGGAGTCTCTTGG
GGCCGCTGCAAGTGGGCAGGTGCCCTGGTGTTCTCGTGGGCCGGCCCCAGGCCCTTTGCGGAGCGTGTGCCGCGC
TGAAGGAAGGGGCCGTCCCCCTTACCATGCCCCATTCTTTTAGGCTTGGGGGACCGAACTAACTCCCCCCGCCCC
CACTTGCAAAGTTCAGCCTCCGCTTTAGAAGCTGACCTCTCAGTTTCACTTGGATGTGTTTCTTCTTCAGTCTCC
AAGAAGAGTTTTTAGACAAACACACACTGATGAGAGTGCTTTCAAGTGGAGGGAAGTTAGGAAGTCGTGGCGAGG
GAGCGCAGCTGTGCTGCTGGATGTTGCTGTTTTCCTGGCGTGTTAGCGGTGGTCAGCAGACAAGGCGCCTCTGTC
GAAGAGCCTTCTGCTGGTCCCCAGTGCCCTCTCCCTCCTGCTCGCCCTCCTCCTGCCTCACTGCCAGAAGCTCTT
TGTGTATGACCTTCACGCAGTCAAGAACGACTTCCAGCCTGGCACCTGTGTTTGCTCTGTTTGTACCATTTTACT
GCTCCATACCAAGAGTCCAAGTGGCACAAATTCTGGGTCCGTTGTCCATCACAAACAAGACATTGATTTATATAT
TGGGACTGCAGCTTTTCACCTCTGGTTCCTACATCTGGATTGTAGCCATAAGTGGACTTATGTCCGGTCTGTGCT
ACGACAGCAAAATGTTCCAGGTGCATCAGGTGCTCTGCATCCCCAGCTGGATGGCAAAATTCTTTTCTTGGACAC
TTGAACCCATCTTCTCTTCTTCAGAACCCACCAGCGAAGCCAGAATTGGGATGGGAGCCACGCTGGACATCCAGA
GACAGCAGAGAATGGAGCTGCTGGACCGGCAGCTGATGTTCTCTCAGTTTGCACAAGGGAGGCGACAGAGACAGC
AGCAGGGAGGAATGATCAATTGGAATCGTCTTTTTCCTCCTTTACGTCAGCGACAAAACGTAAACTATCAGGGCG
GTCGGCAGTCTGAGCCAGCAGCGCCCCCTCTAGAAGTTTCTGAGGAACAGGTCGCCCGGCTCATGGAGATGGGAT
TTTCCAGAGGTGATGCTTTGGAAGCCCTGAGAGCTTCAAACAATGACCTCAATGTCGCCACCAACTTCCTGCTGC
AGCACTGATAGTCCCAGGCCAACACTGGGACCGGACCGGCAGCCGAGTGACAGTGCGTGGTCCCCACCATCAGAT
CAGCCCGGGGACCGAGCATCTCTGGTGCTGATGTTCTTGTGGGAAGAGGGAGGTTCCACCGCACCCCTGCCCTCA
ACCGCAAGACTGTTGCCGTTTTAGTGTGGAGATAAGTTTGCCATTACATTAGCATGTATTTTCTATCTATATTTT
TTATTGGGCATTTTCCCTAGGTTGGAGAGTCAGCACTCGTTTTGAATGTGTTTAAAATGCATTAAAATGGAAGAT
TTCTGCAGGCAGTTGAATGGCACTCCAGATGGGGAATTGCTGTAACCCTCTTACTGTAACATGTCATCTCCTGCG
TCGTGATGGGGAGAGGGTAATGTTACTTCACAAAGGACATGTCAGATCCTTCTTCATGGACTTTTTTAGTTACTG
TTTTTTCTCTCAAACTTGTTTTCGAATCTCCTGGGAGTGAGGGAGAAACAGGGAGCTGAATCCTCCCCCAAGCTG
TTCCAGGCCAGAGGACTCTGCAGTACCTTCTCCTACATCTAGTAACAAAGAATGGTGATAACCATGCACTGGTTC
AAGGTTCTGGAGTTCTCCATGAAACTTGGGTTAATTTTGCTCAGAGTATCCAGAGTTAGCCACTAGGCTGCGGGT
GAAATGGGATGGAGAAGAACAACAGCAGGCTTCCTGGAGCCACATGGGCTGACTAGGGCACTCTGTGGCTGGCCT
GGCATGGGCTCAGCCCAGGAAGAGGAGAAACGATCCCTTGCCTGCCCCTCCCTGTGGCAGGGCTAACTGCCTGGC
CCTCCTGGCTCGCAGCCAGCCAGCCCCCTGGCAGCAGGTTCTCCTCAGGGCTTGGGTCTTCAACCTGTGGCGACA
GGAGGCAGGGCAGACTGTGGAGGACAGGATGCAGGTCAGGGAGAGGGAAGGCAGGGGTGGACCGCCATGAGCATG
AAAAGACCCGAAGCAAGTTGACTCTTGCAATGTGCAACTGTTATGTTCTGCAAAATGAGCAACGATGTATCAAAT
TGATGCAAATTTAGATGTTGATACTTACAATAAAGTTTTTAATGTGTTTTACTCTTC

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FIGURE 3932

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TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCACGTG
CAGCCTATTCGCTGCACTAACTGTGCCCGATGCGTGCCCAAGGACAACGCCATTAAGAAATTCGTCATTCGAAAC
ATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAAG
GACCGAACACCCCCACCTCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACCAAAGCCCATGTAAGGAGCT
GAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT
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FIGURE 3933

AGGTTACC**ATG**AAGATCATAGCAATGTCGCCTGCTGGCTTCTGGCAAAGCAGAAGAAACCGATACGATCTCCTGG
TGACGTCGCTTGGCGTTGTATGGGTGGTGCTTCACTTTGCCCTCCTGAATGCATATACTTACATGATGGGCGCTT
GTGTGATTGTATTTAGGTTTTTCTCCATCTGTGGAAAACATGTAACGCTAAAGATGCTCCTCTTGACAGTGGTCG
TCAGCATGTACAAGAGCTTCTTTATCATAGTAGGCATGTTTCTCTTGCTGCTGTGTTACGCTTTTGCTGGAGTTG
TTTTATTTGGTACTGTGAAATATGGGGAGAATATTAACAGGCATGCAAATTTTTCTTCGGCTGGAAAAGCTATTA
CCGTACTGTTCCGAATTGTCACAGGTGAAGACTGGAACAAGATTATGCATGACTGTATGGTTCAGCCTCCGTTTT
GTACTCCAGATGAATTACATACTGGGCAACAGACTGTGGAAATTATGCTGGGGCACTTATGTATTTCTGTTCAT
TTTATGTCATCATTGCCTACATCATGCTAAATCTGCTTGTAGCCATAATTGTGGAGAATTTCTCCTTGTTTTATT
CCACTGAGGAGGACCAGCTTTTAAGTTACAATGATCTTCGCCACTTTCAAATAATATGGAACATGGTGGATGATA
AAAGAGAGGGGGTGATCCCCACGTTCCGCGTCAAGTTCCTGCTGCGGCTACTGCGTGGGAGGCTGGAGGTGGACC
TGGACAAGGACAAGCTCCTGTTTAAGCACATGTGCTACGAAATGGAGAGGCTCCACAATGGCGGCGACGTCACCT
TCCATGATGTCCTGAGCATGCTTTCATACCGGTCCGTGGACATCCGGAAGAGCTTGCAGCTGGAGGAACTCCTGG
CGAGGGAGCAGCTGGAGTACACCATAGAGGAGGAGGTGGCCAAGCAGACCATCCGCATGTGGCTCAAGAAGTGCC
TGAAGCGCATCAGAGCTAAACAGCAGCAGTCGTGCAGTATCATCCACAGCCTGAGAGAGAGTCAGCAGCAAGAGC
TGAGCCGGTTTCTGAACCCGCCCAGCATCGAGACCACCCAGCCCAGTGAGGACACGAATGCCAACAGTCAGGACA
ACAGCATGCAACCTGAGACAAGCAGCCAGCAGCAGCTCCTGAGCCCCACGCTGTCGGATCGAGGAGGAAGTCGGC
AAGATGCAGCCGACGCAGGGAAACCCCAGAGGAAATTTGGGCAGTGGCGTCTGCCCTCAGCCCCAAAACCAATAA
GCCATTCAGTGTCCTCAGTCAACTTACGGTTTGGAGGAAGGACAACCATGAAATCTGTCGTGTGCAAAATGAACC
CCATGACTGACGCGGCTTCCTGCGGTTCTGAAGTTAAGAAGTGGTGGACCCGGCAGCTGACTGTGGAGAGCGACG
AAAGTGGGGATGACCTTCTGGATATT**TAG**GTGGATGTCAATGTAGATGAATTTCTAGTGGTGGAAACCGTTTTCT
AATAATGTCCTTGATTGTCCAGTGAGCAATCTGTAATTGATCTATAACTGAATTCCAGCTTGTCACAAGATGTTT
ATAAATTGATTTTCATCCTGCCACAGAAAGGCATAAGCTGCATGTATGATGGGTTACTATCAATCATTGCTCAAA
AAAATTTTTGTATAATGACAGTACTGATAATATTAGAAATGATACCGCAAGCAAATGTATATCACTTAAAAATGT
CATATATTCTGTCTGCGTAAACTAAGGTATATATTCATATGTGCTCTAATGCAGTATTATCACCGCCCCGCAAAA
GAGTGCTAAGCCCAAAGTGGCTGATATTTAGGGTACAGGGGTTATAGCTTTAGTTCACATCTTTCCCATTTCCAC
TAGAAATATTTCTCTTGAGAGAATTTATTATTTATGATTGATCTGAAAAGGTCAGCACTGAACTTATGCTAAAAT
GATAGTAGTTTTACAAACTACAGATTCTGAATTTTAAAAAGTATCTTCTTTTTCTCGTGTTATATTTTTAAATAT
ACACAAGACATTTGGTGACCAGAACAAGTTGATTTCTGTCCTCAGTTATGTTAATGAAACTGTTGCCTCCTTCTA
AGAAAATTGTGTGTGCAAGCACCAGGCAAAGAAATGGACTCAGGATGCTTAGCGGTTTAAAACAAACCTGTAGAT
AAATCACTTGAGTGACATAGTTGCGCAAAGATGTTAAGTTTCTTAAGAAACCTTTTAATAACTGAGTTTAGCAAA
AAGAATAAAACTATATAGCTCAATTTATTTAAAAAAATCTTTGCATGTGTGATGTTATCATTGGCTTCATTTCTT
ACCCAAGGTATGTCTGTTTTGCCATAAATCAGCAGAGTCATTTCATTCTGGGTGATCCTAACACACCATTGCTAC
GTTAGATTTGAAATGACATCTCTGTTAAAAGAATCTTCTATGGAAATAATGGTGCCCTGCAAAATCTTCCTTTGA
ACTCACAGGTTAGGGATCACACAACTTACTTAATCGTTTTTTGTTTTTGTTTTTTTTCCTTATATGTCAATGGCC
CATGTCCTCCGGGAAAATTAGAAAAGCAAATGATTACAAAGTGCTGTTAGATTCTTGTGCTGGGCCAGCCAAG
TAGAAGTGGACTTGACTTGGACCTTTAACTATTTTATTACAGATTGGACATTTGCTGTTCAGATGTTTTTTAACA
GAGGGATTATCTCAGAATCCTGTGACCTCCAGGTTGTTTATAATCTATTTTTCTCTATTTAACATTCCTCAGAT
AGATAGGCAAATAGGACATTCCTTCTGTGTCACAGAAGTATCGTGGTAGTGGCAGTCTACAGTTTATATGATTCA
TTGTAACTATGAGATAAAGAACAACCAGTCATGTGGCCAAAAGGATTAGATTTGATTTGATGTTCACTTGGAGTT
TACTTTTTGTACATACAAGATAAAATAAATATTGGATTTGT

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FIGURE 3934

MKIIAMSPAGFWQSRRNRYDLLVTSLGVVWVVLHFALLNAYTYMMGACVIVFRFFSICGKHVTLKMLLLTVVVSM
YKSFFIIVGMFLLLLCYAFAGVVLFGTVKYGENINRHANFSSAGKAITVLFRIVTGEDWNKIMHDCMVQPPFCTP
DEFTYWATDCGNYAGALMYFCSFYVIIAYIMLNLLVAIIVENFSLFYSTEEDQLLSYNDLRHFQIIWNMVDDKRE
GVIPTFRVKFLLRLLRGRLEVDLDKDKLLFKHMCYEMERLHNGGDVTFHDVLSMLSYRSVDIRKSLQLEELLARE
QLEYTIEEEVAKQTIRMWLKKCLKRIRAKQQQSCSIIHSLRESQQQELSRFLNPPSIETTQPSEDTNANSQDNSM
QPETSSQQQLLSPTLSDRGGSRQDAADAGKPQRKFGQWRLPSAPKPISHSVSSVNLRFGGRTTMKSVVCKMNPMT
DAASCGSEVKKWWTRQLTVESDESGDDLLDI

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FIGURE 3935

CTTGGCTGGAACCTGAGACGGATTCGCTCCCAAATGATGCTCCAGTGGCTGGAGCAACTCAAGTTCATCATTGTC
CTGAGAGAGAGGAGCAGCGCGGTTCTCGGCCGGGACAGCAGAACGCCAGGGGACCCTCACCTGGGCGCGCCGGGG
CACGGGCTTTGATTGTCCTGGGGTCGCGGAGACCCGCGCGCCTGCCCTGCACGCCGGGCGGCAACCTTTGCAGTC
GCGTTGGCTGCTGCGATCGGCCGGCGGGTCCCTGCCGAAGGCTCGGCTGCTTCTGTCCACCTCTTACACTTCTTC
ATTTATCGGTGGATCATTTCGAGAGTCCGTCTTGTAA**ATG**TTTGGCACTTTGCTACTTTATTGCTTCTTTCTGGC
GACAGTTCCAGCACTCGCCGAGACCGGCGGAGAAAGGCAGCTGAGCCCGGAGAAGAGCGAAATATGGGGACCCGG
GCTAAAAGCAGACGTCGTCCTTCCCGCCCGCTATTTCTATATTCAGGCAGTGGATACATCAGGGAATAAATTCAC
ATCTTCTCCAGGCGAAAAGGTCTTCCAGGTGAAAGTCTCAGCACCAGAGGAGCAATTCACTAGAGTTGGAGTCCA
GGTTTTAGACCGAAAAGATGGGTCCTTCATAGTAAGATACAGAATGTATGCAAGCTACAAAAATCTGAAGGTGGA
AGTTAAATTCCAAGGGCAACATGTGGCCAAATCCCCATATATTTTAAAÀGGGCCGGTTTACCATGAGAACTGTGA
CTGTCCTCTGCAAGATAGTGCAGCCTGGCTACGGGAGATGAACTGCCCTGAAACCATTGCTCAGATTCAGAGAGA
TCTGGCACATTTCCCTGCTGTGGATCCAGAAAAGATTGCAGTAGAAATCCCAAAAAGATTTGGACAGAGGCAGAG
CCTATGTCACTACACCTTAAAGGATAACAAGGTTTATATCAAGACTCATGGTGAACATGTAGGTTTTAGAATTTT
CATGGATGCCATACTACTTTCTTTGACTAGAAAGGTGAAGATGCCAGATGTGGAGCTCTTTGTTAATTTGGGAGA
CTGGCCTTTGGAAAAAAAGAAATCCAATTCAAACATCCATCCGATCTTTTCCTGGTGTGGCTCCACAGATTCCAA
GGATATCGTGATGCCTACGTACGATTTGACTGATTCTGTTCTGGAAACCATGGGCCGGGTAAGTCTGGATATGAT
GTCCGTGCAAGCTAACACGGGTCCTCCCTGGGAAAGCAAAAATTCCACTGĊCGTCTGGAGAGGGCGAGACAGCCG
CAAAGAGAGACTCGAGCTGGTTAAACTCAGTAGAAAACACCCAGAACTCATAGACGCTGCTTTCACCAACTTTTT
CTTCTTTAAACACGATGAAAACCTGTATGGTCCCATTGTGAAACATATTTCATTTTTTGATTTCTTCAAGCATAA
GTATCAAATAAATATCGATGGCACTGTAGCAGCTTATCGCCTGCCATATTTGCTAGTTGGTGACAGTGTTGTGCT
GAAGCAGGATTCCATCTACTATGAACATTTTTACAATGAGCTGCAGCCCTGGAAACACTACATTCCAGTTAAGAG
CAACCTGAGCGATCTGCTAGAAAAACTTAAATGGGCGAAAGATCACGATGAAGAGGCCAAAAAGATAGCAAAAGC
AGGACAAGAATTTGCAAGAAATAATCTCATGGGCGATGACATATTCTGTTATTATTTCAAACTTTTCCAGGAATA
TGCCAATTTACAAGTGAGTGAGCCCCAAATCCGAGAGGGCATGAAAAGGGTAGAACCACAGACTGAGGACGACCT
CTTCCCTTGTACTTGCCATAGGAAAAAGACCAAAGATGAACTC**TGA**TATGCAAAATAACTTCTATTAGAATAATG
GTGCTCTGAAGACTCTTCTTAACTAAAAAGAAGAATTTTTTAAGTATTAATTCCATGGACAATATAAAATCTGT
GTGATTGTTTGCAGTATGAAGCACACATTTCTACTTATGCAGTATTCTCATGACTGTACTTTAAAGTACATTTTTA
GAATTTTATAATAAAACCACCTTTATTTTAAAGGAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3936

MFGTLLLYCFFLATVPALAETGGERQLSPEKSEIWGPGLKADVVLPARYFYIQAVDTSGNKFTSSPGEKVFQVKV
SAPEEQFTRVGVQVLDRKDGSFIVRYRMYASYKNLKVEVKFQGQHVAKSPYILKGPVYHENCDCPLQDSAAWLRE
MNCPETIAQIQRDLAHFPAVDPEKIAVEIPKRFGQRQSLCHYTLKDNKVYIKTHGEHVGFRIFMDAILLSLTRKV
KMPDVELFVNLGDWPLEKKKSNSNIHPIFSWCGSTDSKDIVMPTYDLTDSVLETMGRVSLDMMSVQANTGPPWES
KNSTAVWRGRDSRKERLELVKLSRKHPELIDAAFTNFFFFKHDENLYGPIVKHISFFDFFKHKYQINIDGTVAAY
RLPYLLVGDSVVLKQDSIYYEHFYNELQPWKHYIPVKSNLSDLLEKLKWAKDHDEEAKKIAKAGQEFARNNLMGD
DIFCYYFKLFQEYANLQVSEPQIREGMKRVEPQTEDDLFPCTCHRKKTKDEL

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FIGURE 3937A

GAGTGTGGCTGCAGTGCGCCGGGACACCAGGGCTCCGCGCTCCGCACTCAAGAGGCTCCCGCGTCCCAACCCCTC
GCGCCCGCGCGTTCGCGGATCCAGGCCGAGGACCGAAAGGGGCCGCCCGAGCCCCCGGGGCCGGCGCCCAGAGAG
CCCAGCAAGGCCGGCCGCCCTGCCGGTGTGCCGCCGGCGGGTGCTTCTGGAAGGGCCAATGCGTTCGGGCAGCAG
CCCCTGAAGCCGAGCCCGAGGCTAAGTGGGACTGACCGGGGCCCAGAGTGGACGAACCGCCAGCATGGGGAGAGA
CCAGCGCGCGGTGGCCGGCCCTGCCCTACGGCGGTGGCTGCTGCTGGGGACAGTGACCGTGGGGTTCCTCGCCCA
GAGCGTCTTGGCGGGTGTGAAGAAGTTTGATGTGCCGTGTGGAGGAAGAGATTGCAGTGGGGGCTGCCAGTGCTA
CCCTGAGAAAGGTGGACGTGGTCAGCCTGGGCCAGTGGGCCCCCAGGGGTACAATGGGCCACCAGGATTACAAGG
ATTCCCGGGACTGCAGGGACGTAAAGGAGACAAGGGTGAAAGGGGAGCCCCCGGAGTAACGGGACCCAAGGGCGA
CGTGGGAGCAAGAGGCGTTTCTGGATTCCCTGGTGCCGATGGAATTCCTGGACACCCGGGGCAAGGTGGGCCCAG
GGGAAGGCCGGGCTACGATGGCTGCAACGGAACCCAGGGAGACTCAGGTCCACAGGGGCCCCCCGGCTCTGAGGG
GTTCACCGGGGCCTCCCGGGCCCCAAGGACCAAAAGGGCAGAAAGGTGAGCCTTATGCACTGCCTAAAGAGGAGCG
CGACAGATATCGGGGTGAACCTGGAGAGCCTGGATTGGTCGGTTTCCAGGGACCTCCCGGCCGCCCTGGGCATGT
GGGACAGATGGGTCCAGTTGGAGCTCCAGGGAGACCAGGACCACCTGGACCCCCTGGACCAAAAGGACAGCAAGG
CAACAGAGGACTTGGTTTCTACGGAGTTAAGGGTGAAAAGGGTGACGTAGGGCAGCCGGGACCCAACGGGATTCC
ATCAGACACCCTCCACCCCATCATCGCGCCCACAGGAGTCACCTTCCACCCAGATCAGTACAAGGGTGAAAAAGG
CAGTGAGGGGGAACCAGGAATAAGAGGCATTTCCTTGAAGGGAGAAGAAGGAATCATGGGCTTTCCTGGACTGAG
GGGTTACCCTGGCTTGAGTGGTGAAAAAGGATCACCAGGACAGAAGGGAAGCCGAGGCCTGGATGGCTATCAAGG
GCCTGATGGACCCCGGGGACCCAAGGGAGAAGCCGGAGACCCAGGGCCCCCTGGACTACCTGCCTACTCCCCTCA
CCCTTCCCTAGCAAAAGGTGCCAGAGGTGACCCGGGATTCCCAGGGGCCCAAGGGGAGCCAGGAAGCCAGGGTGA
GCCAGGAGACCCGGGCCTCCCAGGTCCCCCTGGCCTCTCCATCGGAGATGGAGATCAGAGGAGAGGCCTGCCGGG
TGAGATGGGACCCAAGGGCTTCATCGGAGACCCCGGCATCCCTGCGCTCTACGGGGGCCCACCTGGACCTGATGG
AAAGCGAGGGCCTCCAGGACCCCCCGGGCTCCCTGGACCACCTGGACCTGATGGCTTCCTGTTTGGGCTGAAAGG
AGCAAAAGGAAGAGCAGGCTTCCCTGGGCTTCCCGGCTCCCCTGGAGCCCGCGGACCAAAGGGGTGGAAAGGTGA
CGCTGGGGAATGCAGATGTACAGAAGGCGACGAAGCTATCAAAGGTCTTCCGGGACTGCCAGGACCCAAGGGCTT
CGCAGGCATCAACGGGGAGCCGGGGAGGAAAGGGGACAGAGGAGACCCCGGCCAACACGGCCTCCCTGGGTTCCC
AGGGCTCAAGGGAGTGCCTGGCAACATTGGTGCTCCCGGACCCAAAGGAGCAAAAGGAGATTCCAGAACAATCAC
AACCAAAGGTGAGCGGGGACAGCCCGGCGTCCCAGGTGTGCCCGGGATGAAAGGTGACGATGGCAGCCCAGGCCG
CGATGGGCTCGATGGATTCCCCGGCCTCCCAGGCCCTCCCGGTGATGGCATCAAGGGCCCTCCAGGGGACCCAGG
CTATCCAGGAATACCTGGAACGAAGGGTACTCCAGGAGAAATGGGCCCCCCAGGACTGGGCCTTCCCGGCCTCAA
AGGCCAACGTGGTTTCCCTGGAGACGCCGGCTTACCTGGACCACCAGGCTTCCTGGGCCCTCCTGGCCCCGCAGG
GACCCCAGGACAAATAGATTGTGACACAGATGTGAAAAGGGCCGTTGGAGGTGACAGACAGGAGGCCATCCAGCC
AGGTTGCATAGGAGGGGCCCAAGGGATTGCCAGGCCTGCCAGGACCCCCCAGGCCCCACAGGTGCCAAAGGCCTCCG
AGGAATCCCAGGCTTCGCAGGAGCTGATGGAGGACCAGGGCCCAGGGGCTTGCCAGGAGACGCAGGTCGTGAAGG
GTTCCCAGGACCCCCAGGGGTTCATAGGACCCCGAGGATCCAAAGGTGCAGTGGGCCTCCCTGGCCCAGATGGATC
CCCAGGTCCCATCGGCCTGCCAGGGCCAGATGGGCCCCCTGGGGGAAAGGGGCCTCCCTGGAGAAGTCCTGGGAGC
TCAGCCCGGGCCACGGGGAGATGCTGGTGTGCCTGGACAGCCTGGGCTTAAAGGCCTTCCCGGAGACAGAGGCCC
CCCTGGATTCAGAGGAAGCCAAGGGATGCCTGGGATGCCAGGGCTGAAGGGCAGCCAGGCCTCCCAGGACCTTC
CGGCCAGCCAGGCCTGTATGGGCCTCCAGGACTGCATGGATTCCCAGGAGCTCCTGGCCAAGAGGGGCCCTTGGG
GCTGCCAGGAATCCCAGGCCGTGAAGGTCTGCCTGGTGATAGAGGGGACCCTGGGGACACAGGCGCTCCTGGCCC
TGTGGGCATGAAAGGTCTCTCTGGTGACAGAGGAGATGCTGGCTTCACAGGGGAGCAAGGCCATCCAGGAAGCCC
TGGATTTAAAGGAATTGATGGAATGCCTGGGACCCCCGGGCTAAAAGGAGATAGAGGCTCACCTGGGATGGATGG
TTTCCAAGGCATGCCTGGACTCAAAGGGAGACCCGGGTTTCCAGGGAGCAAAGGCGAGGCTGGATTTTTCGGAAT
ACCCGGTCTGAAGGGTCTGGCTGGTGAGCCAGGTTTTAAAGGCAGCCGAGGGGACCCTGGGCCCCCAGGACCACC
TCCTGTCATCCTGCCAGGAATGAAAGACATTAAAGGAGAGAAAGGAGATGAAGGGCCTATGGGGCTGAAAGGATA
CCTGGGCGCAAAAGGTATCCAAGGAATGCCAGGCATCCCAGGGCTGTCAGGAATCCCTGGGCTGCCTGGGAGGCC
CGGCCACATCAAAGGAGTCAAGGGAGACATCGGAGTCCCCGGCATCCCCGGTTTGCCAGGATTCCCTGGGGTGGC
TGGCCCCCCTGGAATTACGGGATTCCCAGGATTCATAGGAAGCCGGGGTGACAAAGGTGCCCCAGGGAGAGCAGG
CCTGTATGGCGAGATTGGCGCGACTGGTGATTTCGGTGACATCGGGGACACTATAAATTTACCAGGAAGACCAGG

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FIGURE 3937B

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CCTGAAGGGGGAGCGGGGCACCACTGGAATACCAGGTCTGAAGGGATTCTTTGGAGAGAAGGGAACAGAAGGTGA
CATCGGCTTCCCTGGGATAACAGGCGTGACTGGAGTCCAAGGCCCTCCTGGACTTAAAGGACAAACAGGCTTTCC
AGGGCTGACTGGGCCTCCAGGGTCGCAGGGAGAGCTGGGGCGGATTGGACTGCCTGGTGGCAAAGGAGATGATGG
CTGGCCGGGAGCTCCGGGCTTACCAGGTTTTCCGGGACTCCGTGGGATCCGCGGCTTACACGGCTTGCCAGGCAC
CAAGGGCTTTCCAGGATCCCCAGGTTCTGACATCCACGGAGACCCAGGCTTCCCAGGCCCTCCTGGGGAAAGAGG
TGACCCAGGAGAGGCCAACACCCTTCCAGGCCCTGTGGGAGTCCCAGGACAGAAAGGAGACCAAGGAGCTCCAGG
GGAACGAGGCCCACCTGGGAGCCCAGGACTTCAGGGGTTCCCTGGTATCACACCCCCTTCCAACATCTCTGGGGC
ACCTGGTGACAAAGGGGCGCCAGGGATATTTGGCCTGAAAGGTTATCGGGGCCCACCAGGGCCACCAGGTTCTGC
TGCTCTTCCTGGAAGCAAAGGTGACACAGGGAACCCAGGAGCTCCAGGAACCCCAGGGACCAAAGGATGGGCCGG
GGACTCCGGGCCCCAGGGCAGGCCTGGTGTGTTTGGTCTCCCAGGAGAAAAAGGGCCCAGGGGTGAACAAGGCTT
CATGGGGAACACTGGACCCACTGGGGCGGTGGGCGACAGAGGCCCCAAGGGACCCAAGGGAGACCCAGGATTCCC
TGGTGCCCCCGGGACTGTGGGAGCCCCCGGGATTGCAGGAATCCCCCAGAAGATTGCCGTCCAACCAGGGACAGT
GGGTCCCCAGGGGAGGCGAGGCCCCCCTGGGGCACCGGGGGAGATGGGGCCCCAGGGCCCCCCCGGAGAACCAGG
TTTCCGTGGGGCTCCAGGGAAAGCTGGGCCCCAAGGAAGAGGTGGTGTGTCTGCTGTTCCCGGCTTCCGGGGGAGA
TGAAGGACCCATAGGCCACCAGGGGCCGATTGGCCAAGAAGGTGCACCAGGCCGTCCAGGGAGCCCGGGCCTGCC
GGGTATGCCAGGCCGCAGCGTCAGCATCGGCTACCTCCTGGTGAAGCACAGCCAGACGGACCAGGAGCCCATGTG
CCCAGTGGGCATGAACAAACTCTGGAGTGGATACAGCCTGCTGTACTTCGAGGGCCAGGAGAAGGCGCACAACCA
GGACCTGGGGCTGGCGGGCTCCTGCCTGGCGCGGTTCAGCACCATGCCCTTCCTGTACTGCAACCCTGGTGATGT
CTGCTACTATGCCAGCCGGAACGACAAGTCCTACTGGCTCTCTACCACTGCGCCGCTGCCCATGATGCCCGTGGC
CGAGGACGAGATCAAGCCCTACATCAGCCGCTGTTCTGTGTGTGAGGCCCCGGCCATCGCCATCGCGGTCCACAG
TCAGGATGTCTCCATCCCACACTGCCCAGCTGGGTGGCGGAGTTTGTGGATCGGATATTCCTTCCTCATGCACAC
GGCGGCGGGAGACGAAGGCGGTGGCCAATCACTGGTGTCACCGGGCAGCTGTCTAGAGGACTTCCGCGCCACACC
ATTCATCGAATGCAATGGAGGCCGCGGCACCTGCCACTACTACGCCAACAAGTACAGCTTCTGGCTGACCACCAT
TCCCGAGCAGAGCTTCCAGGGCTCGCCCTCCGCCGACACGCTCAAGGCCGGCCTCATCCGCACACACATCAGCCG
CTGCCAGGTGTGCATGAAGAACCTGTGAGCCGGCGCGTGCCAGGAAGGGCCATTTTGGTGCTTATTCTTAACTTA
TTACCTCAGGTGCCAACCCAAAAATTGGTTTTATTTTTTTCTTAAAAAAAAAAAAGTCTACCAAAGGAATTTGCA
TCCAGCAGCAGCACTTAGACCTGCCAGCCACTGTCACCGAGCGGGTGCAAGCACTCGGGGTCCCTGGAGGGCAAG
CCCTGCCCACAGAAAGCCAGGAGCAGCCCTGGCCCCCATCAGCCCTGCTAGACGCACCGCCTGAAGGCACAGCTA
ACCACTTCGCACACACCCATGTAACCACTGCACTTTCCAATGCCACAGACAACTCACATTGTTCAACTCCCTTCT
CGGGGTGGGACAGACGAGACAACAGCACACAGGCAGCCAGCCGTGGCCAGAGGCTCGAGGGGCTCAGGGCCTCAG
GCACCCGTCCCCACACGAGGGCCCCGTGGGTGGGCCTGGCCCTGCTTTCTACGCCAATGTTATGCCAGCTCCATG
TTCTCCCAAATACCGTTGATGTGAATTATTTTAAAGGCAAAACCGTGCTCTTTATTTTAAAAAACACTGATAATC
ACACTGCGGTAGGTCATTCTTTTGCCACATCCCTATAGACCACTGGGTTTGGCAAAACTCAGGCAGAAGTGGAGA
CCTTTCTAGACATCATTGTCAGCCTTGCTACTTGAAGGTACACCCCATAGGGTCGGAGGTGCTGTCCCCACTGCC
CCACGTTGTCCCTGAGATTTAACCCCTCCACTGCTGGGGGTGAGCTGTACTCTTCTGACTGCCCCCTCCTGTGTA
ACGACTACAAAATAAAACTTGGTTCTGAATATTTTT
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FIGURE 3938

AGTCGTAGGCGCTGGCCGCTGAC<u>ATG</u>TTGAGGACTACGCGCGGCCCAGGCCTGGGCCCCCCGCTGCTCCAGGCCG
CGCTGGGCCTTGGGCGGGCTGGGTGGCACTGGCCTGCGGGCCGGGCGGCGAGCGGGGGGCGCGGGCGGGCCTGGC
TGCAGCCCACGGGCCGGGAGACGGGTGTGCAGGTGTACAACAGCCTCACCGGGAGGAAGGAACCCCTAATCGTGG
CGCACGCCGAAGCCGCCTCCTGGTATAGCTGTGGACCAACTGTATATGATCATGCGCACCTTGGCCATGCTTGCT
CATATGTTAGATTTGATATCATTCGAAGGATCCTAACCAAGGTTTTTGGATGCAGCATAGTCATGGTGATGGGTA
TTACAGATGTAGATGATAAAATCATCAAAAGAGCCAATGAGATGAATATTTCCCCCGCTTCCCTCGCCAGTCTTT
ATGAGGAAGACTTCAAGCAGGACATGGCAGCCCTGAAGGTTCTCCCACCCACGGTGTACCTGAGGGTAACCGAAA
ATATTCCTCAGATAATTTCTTTCATTGAAGGAATCATTGCTCGTGGGAACGCTTATTCAACGGCAAAAGGCAATG
TCTACTTCGATCTGAAGTCTAGAGGAGACAAGTATGGCAAATTGGTCGGCGTGGTCCCTGGTCCAGTCGGAGAGC
CAGCGGACTCTGACAAGCGTCATGCCAGTGACTTCGCCCTGTGGAAGGCGGCCAAACCCCAGGAGGTGTTCTGGG
CCTCTCCCTGGGGACCCGGGAGGCCGGGCTGGCACATCGAGTGCTCTGCCATCGCTAGTATGGTATTTGGAAGTC
AACTGGATATCCATTCAGGTGGGATAGATTTAGCTTTTCCACATCATGAGAACGAAATTGCACAGTGCGAAGTCT
TTCATCAGTGCGAGCAGTGGGGAAATTATTTTCTGCATTCTGGGCATTTGCACGCCAAAGGCAAAGAAGAAAAAA
TGTCCAAATCATTAAAGAACTACATTACTATTAAGGACTTTCTGAAGACCTTTTCCCCCGATGTCTTCCGGTTCT
TCTGCCTGCGGAGCAGCTACCGCTCAGCCATCGACTACAGTGACAGCGCCATGCTCCAAGCTCAGCAGCTGCTCC
TGGGGCTGGGCTCTTTCCTGGAGGACGCACGTGCCTACATGAAGGGGCAGCTGGCCTGCGGCTCCGTCAGGGAAG
CGATGCTGTGGGAGAGGCTCTCCAGCACCAAGAGGGCCGTGAAGGCGGCCTTGGCAGATGATTTTGACACACCCA
GGGTGGTTGATGCCATCCTGGGCCTTGCACACCACGGGAATGGACAGCTCAGGGCGTCCCTGAAGGAACCTGAAG
GGCCGAGAAGTCCTGCTGTGTTTGGTGCCATCATCTCTTACTTTGAACAGTTTTTTGAAACTGTTGGAATTTCTC
TGGCAAATCAACAGTACGTTTCAGGAGACGGCAGCGAGGCTACCTTGCATGGTGTGGTGGACGAGCTGGTGCGGT
TCCGGCAGAAGGTCCGGCAGTTTGCGCTGGCCATGCCCGAGGCCACGGGGGACGCCCGGCGGCAGCAGCTCCTAG
AAAGGCAGCCCCTGCTGGAAGCATGCGACACCCTGCGCCGGGGCCTGACTGCCCACGGCATCAACATCAAGGACA
GAAGCAGTACAACATCCACGTGGGAACTGCTGGATCAAAGGACAAAAGACCAAAAATCAGCGGGC<u>TGA</u>GGATGGA
GCACAGCCATGAACCTGCTCACGACAAGACGCACCCATGCTTCTCAGGGTCAAGGCTTTATGTTAAAGCTTCCTG
TCGGGGCTGCTAGGTCAGCATTAAAGTAAGGCAACCAACAGTG

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FIGURE 3939

MLRTTRGPGLGPPLLQAALGLGRAGWHWPAGRAASGGRGRAWLQPTGRETGVQVYNSLTGRKEPLIVAHAEAASW
YSCGPTVYDHAHLGHACSYVRFDIIRRILTKVFGCSIVMVMGITDVDDKIIKRANEMNISPASLASLYEEDFKQD
MAALKVLPPTVYLRVTENIPQIISFIEGIIARGNAYSTAKGNVYFDLKSRGDKYGKLVGVVPGPVGEPADSDKRH
ASDFALWKAAKPQEVFWASPWGPGRPGWHIECSAIASMVFGSQLDIHSGGIDLAFPHHENEIAQCEVFHQCEQWG
NYFLHSGHLHAKGKEEKMSKSLKNYITIKDFLKTFSPDVFRFFCLRSSYRSAIDYSDSAMLQAQQLLLGLGSFLE
DARAYMKGQLACGSVREAMLWERLSSTKRAVKAALADDFDTPRVVDAILGLAHHGNGQLRASLKEPEGPRSPAVF
GAIISYFEQFFETVGISLANQQYVSGDGSEATLHGVVDELVRFRQKVRQFALAMPEATGDARRQQLLERQPLLEA
CDTLRRGLTAHGINIKDRSSTTSTWELLDQRTKDQKSAG

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FIGURE 3940

CGGGGGCTGGCGGCTGCGGCTCGGCGGAGAGTGCGGC**ATG**CGCTCGGAAAAGGAGGGGGCCGGAGGCCTTCGGGC
GGCCGTTGCCGCGCGGGGCCCGAGCGGGAGGGAGAAGCTGTCGGCCCTAGAAGTGCAGTTCCACCGCGACTCGCA
GCAGCAGGAGGCTGAGACGCCGCCAACTTCGTCCTCCGGTTGCGGGGGCGGTGCGGGCAAACCTCGCGAGGAGAA
GAGGACGGCCCTGAGCAAGGTGGTCATCCGCCGCCTGCCTCCGGGCCTCACCAAGGAGCAGCTGGAGGAGCAGCT
GCGCCCGCTGCCAGCACACGACTACTTCGAGTTCTTCGCCGCCGACCTGAGTCTTTATCCTCATCTCTACTCAAG
AGCATACATTAATTTTAGGAATCCTGATGACATCCTTCTTTTTAGAGATCGTTTTGATGGATATATCTTCCTTGA
CAGCAAAGGCCTAGAATATCCTGCAGTGGTAGAGTTTGCTCCATTCCAGAAGATAGCCAAAAAGAAGCTGAGAAA
AAAAGATGCCAAGACTGGAAGCATCGAAGATGATCCAGAATATAAGAAGTTTTTAGAAACCTACTGTGTGGAGGA
AGAGAAGACCAGTGCCAACCCTGAGACTCTGCTGGGGGAGATGGAGGCGAAGACAAGAGAGCTCATTGCTAGAAG
AACCACACCTCTTTTGGAATATATTAAAAAATAGAAAATTAGAAAAGCAGAGAATTCGAGAAGAGAAGCGAGAAGA
ACGGAGGAGGAGAGAGTTAGAAAAGAAACGTTTGCGGGAAGAGGAAAAAAGAAGAAGAAGAGAAGAAGAAAGATG
CAAAAAAAAAGAGACAGATAAACAGAAGAAAATTGCAGAGAAAGAAGTAAGGATTAAGCTTCTTAAGAAACCAGA
AAAGGGAGAGGAACCAACCACAGAGAAACCAAAAGAAAGAGGAGAGGAGATTGATACTGGAGGTGGCAAGCAGGA
ATCCTGTGCCCCCGGTGCAGTCGTAAAAGCCAGGCCCATGGAAGGCTCGCTGGAGGAGCCCCAGGAGACGTCACA
CAGCGGCAGTGATAAAGAGCACAGGGATGTGGAGAGATCTCAAGAACAAGAATCTGAAGCACAAAGATACCATGT
GGATGACGGCAGGAGGCACAGAGCTCACCACGAGCCTGAACGGCTTTCCAGAAGGAGTGAGGATGAGCAGAGATG
GGGGAAAGGACCTGGCCAAGACAGAGGGAAGAAGGGGAGCCAGGACAGCGGGGCTCCGGGGGGAGGCCATGGAGAG
ACTGGGAAGAGCGCAGAGGTGTGACGACAGTCCAGCACCCAGAAAAGAGCGACTGGCAAACAAGGACCGGCCAGC
CTTGCAGCTGTATGATCCAGGAGCTCGCTTCCGAGCGCGAGAGTGTGGCGGAAACAGGAGGATCTGCAAGGCAGA
AGGTTCGGGGACTGGTCCTGAGAAGAGGGAAGAGGCAGAG**TGA**GTCACTGCACGCACCTGGCCTCCATGGACGAG
CAAGGGCATCCCAGAAACGTGTAAATGACCCCGAGTGTGACTGGGAAGGAGAACTTATTCCTTACCAGGAAACTG
GAAGCTAAAAATACAGAGGGTGACGTAGAAACACGCAGAAACCATTCTAAAGAAAGTAGTGATCTTGTATTAAAT
TGAGCAGAATTCTCACAGATTTTACCATTCCTGTTATAAACTAGTATTTGTTGTTTAGCCAAAACAGAAAATGAT
TTCCACTGGACAGTAGAAAAATATGTGTAAAATAGGGAAGAAAGTTAGTATTGGATCAGTGTGAGTCCTGAAGCA
CTTTCAGTGCTGTGAGAACGACATCCACTTTGGGTTTCATTCGTTTGTAAGCAGAGGAGCTGTCAGTCACTCGTG
CTTCTCGGTGGCCTCTGAGCCATGGTGTCGAGTGAAGAGTAGTTCTTGTTTGTTACAACCTTTGTGAGTCAGCCA
TGCCCGCAAAGCGTGCTGTGTTTTAGTCCTGGTAGGAATATTTATCAGAGTTCACACTATATAAAACCCAACAGC
TTCAACTATTGCCCTTTCAACAGTTTTGCCACTGACCGGATAGAAACGGTTTCAGTCTCTGGATGGATGTGTTTG
TGGTTTGTAACCATTACGGTTTAAACCATGGTTTAAGAATTTGCCCAAATAACAGAAATTTTGTTCGGGAAGGGA
TAAACTAGATATAGCATACAGAGCCTGTTTTTGAGTTTTAGATACTTTATTTGTAAATAACTTAAAATAGCTTTC
TGAAACCGTGCATTCTGTAGTTTCTTCCTTTCAGTGAAATTGCTAAATGTCAATGTATTTTTGGCACTGCGATTT
TAACCATTTATTAAATAAAAATTTTGTTAAAGAAAAAAAAAAAAAAAAAAAAAAA ·

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FIGURE 3941

MRSEKEGAGGLRAAVAARGPSGREKLSALEVQFHRDSQQQEAETPPTSSSGCGGGAGKPREEKRTALSKVVIRRL
PPGLTKEQLEEQLRPLPAHDYFEFFAADLSLYPHLYSRAYINFRNPDDILLFRDRFDGYIFLDSKGLEYPAVVEF
APFQKIAKKKLRKKDAKTGSIEDDPEYKKFLETYCVEEEKTSANPETLLGEMEAKTRELIARRTTPLLEYIKNRK
LEKQRIREEKREERRRRELEKKRLREEEKRRRREEERCKKKETDKQKKIAEKEVRIKLLKKPEKGEEPTTEKPKE
RGEEIDTGGGKQESCAPGAVVKARPMEGSLEEPQETSHSGSDKEHRDVERSQEQESEAQRYHVDDGRRHRAHHEP
ERLSRRSEDEQRWGKGPGQDRGKKGSQDSGAPGEAMERLGRAQRCDDSPAPRKERLANKDRPALQLYDPGARFRA
RECGGNRRICKAEGSGTGPEKREEAE

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FIGURE 3942

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CGGGGGCTGGCGGCTGCGGCTCGGCGGAGAGTGCGGCATGCGCTCGGAAAAGGAGGGGGCCGGAGGCCTTCGGGC
GGCCGTTGCCGCGCGGGGCCCGAGCGGGAGGGAGAAGCTGTCGGCCCTAGAAGTGCAGTTCCACCGCGACTCGCA
GCAGCAGGAGGCTGAGACGCCGCCAACTTCGTCCTCCGGTTGCGGGGGCGGTGCGGGCAAACCTCGCGAGGAGAA
GAGGACGGCCCTGAGCAAGGTGGTCATCCGCCGCCTGCCTCCGGGCCTCACCAAGGAGCAGCTGGAGGAGCAGCT
GCGCCCGCTGCCAGCACACGACTACTTCGAGTTCTTCGCCGCCGACCTGAGTCTTTATCCTCATCTCTACTCAAG
AGCATACATTAATTTTAGGAATCCTGATGACATCCTTCTTTTTAGAGATCGTTTTGATGGATATATCTTCCTTGA
CAGCAAAGATCCAGAATATAAGAAGTTTTTAGAAACCTACTGTGTGGAGGAAGAGAAGACCAGTGCCAACCCTGA
GACTCTGCTGGGGGAGATGGAGGCGAAGACAAGAGAGCTCATTGCTAGAAGAACCACACCTCTTTTGGAATATAT
TAAAAATAGAAAATTAGAAAAGCAGAGAATTCGAGAAGAGAAGCGAGAAGAACGGAGGAGGAGAGAGTTAGAAAA
GAAACGTTTGCGGGAAGAGGAAAAAAGAAGAAGAAGAGAAGAAGAAAGATGCAAAAAAAAAGAGACAGATAAACA
GAAGAAAATTGCAGAGAAAGAAGTAAGGATTAAGCTTCTTAAGAAACCAGAAAAGGGAGAGGAACCAACCACAGA
GAAACCAAAAGAAAGAGGAGAGGAGATTGATACTGGAGGTGGCAAGCAGGAATCCTGTGCCCCCGGTGCAGTCGT
AAAAGCCAGGCCCATGGAAGGCTCGCTGGAGGAGCCCCAGGAGACGTCACACAGCGGCAGTGATAAAGAGCACAG
GGATGTGGAGAGATCTCAAGAACAAGAATCTGAAGCACAAAGATACCATGTGGATGACGGCAGGAGGCACAGAGC
TCACCACGAGCCTGAACGGCTTTCCAGAAGGAGTGAGGATGAGCAGAGATGGGGGAAAGGACCTGGCCAAGACAG
AGGGAAGAAGGGGAGCCAGGACAGCGGGGCTCCGGGGGAGGCCATGGAGAGACTGGGAAGAGCGCAGAGGTGTGA
CGACAGTCCAGCACCCAGAAAAGAGCGACTGGCAAACAAGGACCGGCCAGCCTTGCAGCTGTATGATCCAGGAGC
TCGCTTCCGAGCGCGAGAGTGTGGCGGAAACAGGAGGATCTGCAAGGCAGAAGGTTCGGGGACTGGTCCTGAGAA
GAGGGAAGAGGCAGAGTGAGTCACTGCACGCACCTGGCCTCCATGGACGAGCAAGGGCATCCCAGAAACGTGTAA
ATGACCCCGAGTGTGACTGGGAAGGAGAACTTATTCCTTACCAGGAAACTGGAAGCTAAAAATACAGAGGGTGAC
GTAGAAACACGCAGAAACCATTCTAAAGAAAGTAGTGATCTTGTATTAAATTGAGCAGAATTCTCACAGATTTTA
CCATTCCTGTTATAAACTAGTATTTGTTGTTTAGCCAAAACAGAAATGATTTCCACTGGACAGTAGAAAAATAT
GTGTAAAATAGGGAAGAAAGTTAGTATTGGATCAGTGTGAGTCCTGAAGCACTTTCAGTGCTGTGAGAACGACAT
CCACTTTGGGTTTCATTCGTTTGTAAGCAGAGGAGCTGTCAGTCACTCGTGCTTCTCGGTGGCCTCTGAGCCATG
GTGTCGAGTGAAGAGTAGTTCTTGTTTGTTACAACCTTTGTGAGTCAGCCATGCCCGCAAAGCGTGCTGTGTTTT
AGTCCTGGTAGGAATATTTATCAGAGTTCACACTATATAAAACCCAACAGCTTCAACTATTGCCCTTTCAACAGT
TTTGCCACTGACCGGATAGAAACGGTTTCAGTCTCTGGATGGATGTGTTTGTGGTTTGTAACCATTACGGTTTAA
ACCATGGTTTAAGAATTTGCCCAAATAACAGAAATTTTGTTCGGGAAGGGATAAACTAGATATAGCATACAGAGC
CTGTTTTTGAGTTTTAGATACTTTATTTGTAAATAACTTAAAATAGCTTTCTGAAACCGTGCATTCTGTAGTTTC
TTCCTTTCAGTGAAATTGCTAAATGTCAATGTATTTTTGGCACTGCGATTTTAACCATTTATTAAATAAAAATTT
TGTTAAAGAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 3943

MRSEKEGAGGLRAAVAARGPSGREKLSALEVQFHRDSQQQEAETPPTSSSGCGGGAGKPREEKRTALSKVVIRRL
PPGLTKEQLEEQLRPLPAHDYFEFFAADLSLYPHLYSRAYINFRNPDDILLFRDRFDGYIFLDSKDPEYKKFLET
YCVEEEKTSANPETLLGEMEAKTRELIARRTTPLLEYIKNRKLEKQRIREEKREERRRRELEKKRLREEEKRRRR
EEERCKKKETDKQKKIAEKEVRIKLLKKPEKGEEPTTEKPKERGEEIDTGGGKQESCAPGAVVKARPMEGSLEEP
QETSHSGSDKEHRDVERSQEQESEAQRYHVDDGRRHRAHHEPERLSRRSEDEQRWGKGPGQDRGKKGSQDSGAPG
EAMERLGRAQRCDDSPAPRKERLANKDRPALQLYDPGARFRARECGGNRRICKAEGSGTGPEKREEAE

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FIGURE 3944

CGGAAGTGCGGATCCCAGCGGCGGTCGTGTAGCTGAGCAGGCCTGGGGCTTGGTTCTATGTCCCTGTGGCTATGT
TTCCAGTGTCCTCTGGGTGTTTCCAAGAGCAACAAGAAACGAATAAATCTCTGCCCCGCAGCGCCTCCACCCCAG
AGACCCGGACCAAGTTCACACAGGACAATCTGTGCCACGCCCAGCGCGAGCGCCTGGACTCGGCCAACCTGTGGG
TGCTGGTGGACTGCATCCTTCGCGACACCTCCGAGGACCTGGGACTCCAGTGTGACGCCGTGAACCTGGCCTTCG
GGCGCCGCTGTGAGGAACTGGAGGACGCGCGGCACAAGCTGCAGCACCACCTGCACAAGATGCTGCGGGAAATCA
CAGATCAGGAACACAACTTGGTGGCACTGAAGGAGGCCATCAAGGACAAGGAGGAACCTCTGCACATAGCCCAGA
CCCGGCTGTAGCTGCTCTCACACCGGCCCAACATGCAGCTGTGCCGCGATGCAGCCCAGTTCAGGTACTGCCTGG
GCCTCTGAGGCAGTCCCAGGTGCCCCCATCCACCTCCTCGCTGCGACCCTCTCCAATAAACACTCCAATCTCCAC
ACACACATCCCCCACAGGTGCTGAGAGGGGAGGGAGACTCTGCGGCCACACACAACATGCAAGCACGCCTTAAAC
ACACAGATATAGACATGACACTGGGCAGGTCATGGGTCGGGGGCCTCCCCGTGCCAGGGACCTGTGCCCACGTGG
TCTCACCCCACCCTGTGCTACCTCATCTTCCCGGGAGGAAGCTCCTTCAGACAAGGTGAGCTCCTGGAGGCCACG
GGGCCAGAGAGGCCAGAGAGGGCCATTCCCTGCTGCCCTGAGGGTGCTGTCCCCACCTCTGGTGGAAAGTATGAC
CTACGCCTGGGCTACAGGCATAGATGGGCCGTCCTTTTGTTTCCCTTGTTAACGGATGCCTGGTGGCCCCTTCTG
AGCCTAAGTACCTTTCTTCCTTCCCTGCCCCTCAGTTCCTTCAAGGAACTGGGTGCCTCCTTCCGTCAAATATCA
GGAATGGAAAGAACTGAGCCTGGTCGGCTGAGGCCAGTCCTGTCCTGTCAGGGTCGAGATTGCACGCGGGTCACT
CATTCCCACTCAGGCCCGCGCTCCCTGGGAGGACCCTCGTAATTTATGCTCTGCCCTAGAGCCGCTTTCCTGGTA
GGATCCTTTCATGGCGTCTTCCCAGGACCTCCTGCCAGCTCCCATTGGGAGTTTTGGGTCCCCTCCACCCCAGTA
GGTGCATACTTCTGCCCTCCCCAGCCCCAGCTCACACCCCCCAACACCCCCAAGCTGGTGAGTGAGGTGGAGGAG
CTGTACAAGTCCATCACAGCGCTGCGGGAGAAGCTTCTACAAGCGGAGCAGTCCCTGCGCAACCTCAAGGACATC
CACATGAGCCTGGAGAAGGACGTCACTGCCATGACCAACAGTCTCTTCATCGACCGCCAGAAGTGCATGGCCCAT
CGTACTTGCTACCCCACCATTCTGCAGCTGGCTGGCTACCAGTGAGCAGCGGCACGGTGCTTCCCCCCAATCCCC
CAAATAAACAGTGCGTTAGCTTTC

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FIGURE 3945

MFPVSSGCFQEQQETNKSLPRSASTPETRTKFTQDNLCHAQRERLDSANLWVLVDCILRDTSEDLGLQCDAVNLA
FGRRCEELEDARHKLQHHLHKMLREITDQEHNLVALKEAIKDKEEPLHIAQTRL

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FIGURE 3946A

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CTGACCACACACACTCCTCACTCCCCTGGCCCTGATGGGCGGCAGACACCATGGTGCAGACGGATGTGCTCCTAC
CAGAGCCAGCACCGCAGACAGTGTCACCCTGCGAGCTGCCCTGCAAAGAGTATGACGTGGCCCGCAACATGGGCG
TCTACACGTCCTCCAGCCTGGCCACCGCCAGCTGGAGGTGTGGTTCCAGAACTGCTATGCTCGCTACCACCAGGC
CTTCGCCGACTGCAACCAGTCGGAGCGGGAGCTGCAGGGGCGCGAGAGCCAGCAGCTGGCCGCAGAGACCCAGGC
GCTGGCACAGCCGACACAGCAAGACTCCACGTGCAGGGTGGGCGAGCGACTGCAAGACACGCACAGCTGGAAGTC
AGAGCTGCAGCACGAGGTGGAGGTGCTGGCTGCAGAGACCGACCTGCTGCTGGCCCAGAAGCAACGGCTGGAGCG
TGCCCTGGATGCCATGGAGGTGCCCTTCTCCATCGCCACTGACAACATGCAGTGCAGCCAGCGCCACCAGCACGC
CAACCTTGTGCGTGACTATGTGGAGACGGAGCTGCTGAAGGTGCCAGCAGCCTTGGGTGGCCAGGACTTGTGGGC
ACAGAGAGGAGGAGCCCCCGGCAGTTCATGTGGACAAGCCACGTGGCTGCTGCAAGCACACGGGAGACCAGCCCT
CTGTGCGTGAGACACCTGAGTCCTGAAATCTGGCCCCTTAGTGACAGGAGGCAGTTTTGCCCCAGAAGGCCCCTG
ACTTCCAAGCAGCTGTTTCTCCTCTCCTCCAATACCTTTGAGTCCTGGCACAGTCATCCTGACCCTGGGCTCCCC
AGAGACCCTCCCTGATTGGGACAGTTGCTCCCGAGGTGGAAACCCAGGTCTGGGCCAGCACTGCGGGTGTGGACA
GGTAGGGTGGGATAGGCTGGGAGCCACTGCTCCCATTCATCCTATACAGAGCCGGGGACACGAAGATCTGCACCC
ACAGGTCCCCTTCTCCTTGTCACCTGTAACTTCCCAATCCAGCCCAGCTTGTCTATGGGGCAACCCCATAGGGTG
AGAGAGTAACTCAGTCCTGGCACTGATGCTGGCTCTGGAGAATTCCCTGAGCTCTCAGAGCCTGGGGCCTCCATG
AGAACCACTACAGGCCTGTAGACATTTGTGAAAGATGTGGGGTGGAGGCAGCTGGTCTCCTGCCATACCCCCAAA
TTCAGGCAAGAACCCTTGAATCCCTCCCCCCCTTCATGCCTTCCCTCCTCCCTCCCTTCCCCTTCTGCAGGCCTA
TCCCCCTGCACCCTCTCAGTGCCTCAAGAACTGCTGCAGCTCCCGCAAACCCTCTGCCTGCAACAAGGGTGCCTG
TGAAGTGATGGAGACACTGACAGTGCAGGAAGAGGCAAACCCAGGGACAGAGGGGTGCAGGACTCGGGCCCTGGC
ACACAAGGAGGTGTTGACAAAGGCCTTCAGCAGCTGGGCCTCCTGGGATCCTCACCAAGGACCGGATCTGGTGCT
CAGGGCGTCTCCTCCCTCAGGAAGCTGAGCCCATCCGGAACATTCAGGAGCTGCTGAAGAGAGCCATCGTGCAAG
CAGTGAGCCAGATCCAGTGGGTCGAGGGCTGCCCAAGGGATGACTCCTGACCCCACCCACGGCTGGTCCTGGGGC
AAGGCATTGAACGACAGAACCCTGAAGCTCAGAGCCAGCAGGGGCTGTCCCAGGTCACAGTGGGAGCACAGGGCT
GGGTGGGGGAGGTTCTGGCCCAGCCTGAGTTTGAGTGGCCAAAGCCCAGGGCCACAACTGATCTGCAGCCTCCCA
GCATGGGCGGCAGCTCTTCGTCACTGCTGAGCACAAGGACAGCCGGCCCAGAACTCCCTCCTGAAGCGGGCATGA
AGGCCTAGCCTGCAGCATGGAGGGTCCCCAGTGGGGCCCTCCCTGGCCACACACCAAGGCCCTGCCCCACCTCGC
CCCAGACTGAACCGAGAGCACACGGAGATCTGCGAGATGGACTGGTTGGACAAGGTGGAGGCCTACAACCTCGAC
GAGACTTGCGGGCGCCACCACAGCCAGAGCACCGAGGTGCAGGCTCATCCGGCACTCCACCACCTTCCAAGAGAG
GGGGGCCCCAGCTCTGCCCCCGTGCTTGCCCTGGCTGTGGTCTCGCCTCCCTCTGCCTGGGGGCCCCAGCGGCGC
TGCTTCCCCCAGCCTGGCCCAGAGGCCCTCGCCCCCGAGGGCACTTGGGCAACTGTCTGCCCCTGGCATGAGAAA
GCGTGCAAGACCTCCTCAAGTGCCCAGCGCGTGCACAGCCTGGTTGCCCGTAGACAGGACAGGGTGGGATGCGGT
CAGCCCCAGGCGCCGGCAGGATTGCATTTCCACCGAAGGCCAGCAGAGGGAGCACGACCACCGCCCACTTGAGCA
TGGCAAACTCCTGGCCCCGCAGCGCCTCCACCCCAGAGACCCGGACCAAGTTCACACAGGACAATCTGTGCCACG
CCCAGCGCGAGCGCCTGGACTCGGCCAACCTGTGGGTGCTGGTGGACTGCATCCTTCGCGACACCTCCGAGGACC
TGGGACTCCAGTGTGACGCCGTGAACCTGGCCTTCGGGCGCCGCTGTGAGGAACTGGAGGACGCGCGGCACAAGC
TGCAGCACCACCTGCACAAGGTGGGGCACCCTGAACCCCGAAGACAGCTCCGGCGCCTGCCCACCACTCTGCCCC
CTCTCATCACCTGGCCTGGGCCCTCAACACCTTTCTCCTCTGTCCCACTTATCCCGAGGGACCCCAGAAGCAAGT
GTCACCTCTCCGTAAACCTATGTAAAACCAGGTGACACTGGGTATGATCGCAGTGTGTTGCAACCCCCATGACTG
AGCAGGAGGAGCTGTGGGGAGGATGGAGGCAGGAGCTGGTCTGGGGAGCATTGACTGCCTGGGAGGTCCCCAAGA
GTCCTGGCCTGGCAGGCAGGGCTCTGACTCTAGGGCCTCAGCATGGCCTTTACCACCTCTGAGTCCCCAGTCCTT
GAGCAGGATTTGGGTCCTGGTGACCACCAAGGATGGGGGTTCTTGGACCAGAGCTAAGAGACAACAGGCTGCCTG
ACTCTCCAGAGCCCGCTGGGGGCCCTGTGCACATTGTTCCCCTCATCCACGCCTCCCCAGAGCCACTGGTCAGGA
CCACCCTCTGGACACAGCCCCAGGAGCTGGGTAGGACCAGACTGGTCTCCACATTCCATATGCCCGGGCATGGGG
GCACAGGCCCAAGGGGCACTGTCCTGTCTGCAGATGCTGCGGGAAATCACAGATCAGGAACACAACGTGGTGGCA
CTGAAGGAGGCCATCAAGGACAAGGAGGAACCTCTGCACATAGCCCAGACCCGGCTGTACCTGCTCTCACACCGG
CCCAACATGCAGCTGTGCCGCGAAGCAGCCCAGTTCAGGTACTGCCTGGGCCTCTGAGGCAGTCCCAGGTGCCCC
CGTCCACCTCCTCGCTGTGACCCCTCTCATAAACACTCCAATCTCCACACACACATCCCCCACAGGTGCTGAGAG
GGGAGGGAGAGTTTGCGGCCACACACAACACGCAAGCACGCCTTAAACACACAGATATAGACATGACACTGGGCA
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FIGURE 3946B

GGTCATGGGTCGGGGGCCTTCCAGTGCCAGGGACCTGTGCCCACGTGGTCTCACCCCACCCTGTGCTACCTCATC
TTCCCGGGAGGAAGCTCCTTCAGACAAGGTGAGCTCCTGGAGGCCACGGGGACAGAGAGGCCAGAGAGGGCCATT
CCCTGCTGCCTTGAGGGTGCTGTCCCCACCTCTGGTGGAAAGTATGACCTACGCCTGGGCTACAGGCATAGATGG
GCCGTCCTTTTGTTTCCCTTGTTAACGGATGCCTGGTGGCCCCTTCTGAGCCTAAGTACCTTTCTTCCTTCCCTG
CCCCTCAGTTCCTTCAAGGAACTGGGTGCCTCCTTCCGTCAAATATCAGGAATGAAAAGAACTGAGCCTGGTCGG
CTGAGGCCAGTCCTGTCCTGTCAGGGTCGAGATTGCACGCGGGTCACTCATTCCCACTGAGGCCCGCGCTCCCTG
GGAGGACCCTCGTAATTTATGCTCTGCCCTAGAGCCGCTTTCCTGGTGGGATCCTTTCATGGCGTCTTCCCAGGA
CCTCCTGCCAGCTCCCATTGGGAGTTTTGGGTCCCCTGCACCCCGGTAGGTGCATACTTCTGCCCTCCCCAGCCC
CAGCTCACACACCCAACACCCCCAAGCTGGTGAGTGAGGTGGAGGAGCTGAACATGTCCATCACAGCGCTGTGGG
AGAAGCTTCTAGAAGGGGAGCAGTCCCTTTGCAACCTCGAGGACATCCACATGAGCCTGGAGAAGGATGTTACCG
CCATGACCAACAGTCTCTTCATCGACCGCCAGAAGTGCATGGCCCATCGTACTTGCTACACCCCCATCCTGCAGC
TGGCTGGCTACCAGTGAGCAGCGGCACGGTGCTTCCCCCCAATCCCCCAAATAAACAGTGCATTAGCTTTC

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FIGURE 3947

MFPVSSGCFQEQQETNKSLPRSASTPETRTKFTQDNLCHAQRERLDSANLWVLVDCILRDTSEDLGLQCDAVNLA
FGRRCEELEDVRHKLQHHLHKVGHPEPRRRLRRLPTTLPPLITWPGPSTPFSSVPLIPRDPRSKCHLSVNLCKTR

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FIGURE 3948

ATGCTTCCGGCTCCCGCTCTGGAGACACGGGCCGGCCCCCTGCGTGTGGCACGGGCGGCCGGGAGGGCGTCCCCG
GCCCGGCGCTGCTCCCGCGTGTGTCCTGGGGTTGACCAGAGGGCCCCGGGCGCTCCGTGTGTGGCTGCGATGGTG
GCGTTTTTGGGGACAGGCGTCCCTCGGCGCCTCTGCGGGCCCGAGGAGGAGCGGCTGGCGGGTGGGGGGAGTGTG
ACCCACCCTCGTTACGCGACCCCCGAGCGGTCGGCGTCCCCCAACTTCTTAGAGGGACAAGTGGCGTTCAGCCAC
CCGAGATTGAGCAATAACAGGTCTGTGATGCCCTTAGATGTCCGGGGCTGCACGCGCGCTACACTGACTGGCTCA
GCGTGTGCCTACCCTACGCCGGCAGGCGCGGGTAACCCGTTGAACCCCATTCGTGATGGGGATCGGGGATTGCAA
TTATTCCCCATGAACGAGGAATTCCCACTGGCCTTTGCCGGGCGACCCCAGGGGAACCGCGTTGATGCTGCCTTC
GGATCCTCCGGCGAAGACTTCCACCGGATGCCCCGGAAACTCATACCCAAGGGGCAGCTCGTCACCAGGGATGTG
GAAGTACTCTACATCATCTCACACGGCTTTACCACTTTCACCTCCGTCATCGACAGAATTTCACAACTCTACGTT
TCCCTTTCATAA

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FIGURE 3949

CGGGAGAAAGCCCCGCCCCCGGCGCCCGCTCCCACTCCTGATTGGCCGGGCCAGCCCGGGGAGGCCCGGCGGGAC
CCCGGCCCGCGTCTCAGCTATAAAGATAGCCCCGGCATGACAGCCGCGGCGAAGCTCTTCTAGTTCATCTGCTGG
CCGGCTCTCAGTCCCCGTGGCGCCCCCTTTCCTCTTGTCCCAGAGCGCTCTCGACTCCACCATGCCAAGGGGATT
CCTGGTGAAGCGAACTAAACGGACAGGCGGCTTGTACCGAGTTCGCCTTGCGGAGCGTGTCTTCCCTCTGCTGGG
GCCCCAGGGGGCGCCGCCCTTCTTGGAGGAGGCTCCCAGCGCCTCCTTGCCCGGCGCGGAGCGGGCGACACCCCC
CACCCGAGAGGAACCAGGAAAGGGGTTGACGGCGGAGGCGGCCCGGGAACAGTCGGGGTCGCCATGTCGGGCGGC
TGGGGTGAGCCCGGGGACGGGCGGGCGGGAAGGCGCGGAGTGGCGGGCGGGTGGCAGGGAAGGTCCCGGGCCCAG
CCCCAGCCCCAGCCCCAGTCCAGCGAAGCCGGCAGGCGCAGAGCTGCGTCGGGCGTTCCTGGAGCGCTGCCTCAG
CTCGCCCGTCTCCGCCGAGTCTTTCCCCGGGGGCGCCGCCGCCGTGGCCGCTTTCTCCTGCTCCGTGGCGCCAGC
AGCCGCACCGACCCCGGGGGAGCAGTTTCTGCTGCCGCTTCGGGCGCCGTTCCCAGAGCCCGCGCTTCAGCCGGA
CCCTGCGCCCCTCTCGGCCGCCCTTCAGAGTCTGAAGCGGGCGGCCGGCGGCGAGCGCCGCGGCAAGGCACCCAC
GGACTGCGCGTCTGGACCCGCGGCCGCGGGAATCAAGAAGCCAAAGGCCATGAGGAAGTTGAGCTTTGCCGATGA
GGTGACCACATCCCCTGTCCTGGGCCTGAAGATCAAGGAGGAGGAGCCCGGAGCGCCGTCCCGGGGCTTGGGGGG
CAGCCGCACGCCACTGGGGGAGTTCATCTGCCAGCTGTGCAAGGAGCAGTACGCAGACCCCTTCGCGCTGGCCCA
GCACCGCTGCTCCCGCATCGTGCGCGTAGAGTACCGCTGCCCTGAGTGCGACAAGGTGTTCAGCTGTCCTGCGAA
CCTGGCCTCCCATCGCCGCTGGCATAAGCCGCGTCCTGCGGCTGCAAACGCCGCCACAGTCTCCTCCGCCGACGG
GAAGCCGCCTTCTTCGTCGTCTTCGTCCTCCCGGGACTCCGGGGCCATTGCATCTTTTCTGGCGGAGGGAAAGGA
GAACAGCCGAATAGAGCGGACTGCGGATCAGCACCCGCAGGCCAGGGACAGCTCCGGGGCGGATCAGCACCCGGA
CAGCGCCCCGAGGCAGGGCCTCCAGGTGCTGACGCATCCAGAGCCACCGCTGCCTCAGGGCCCCTACACGGAGGG
GGTGTTGGGGCGCCGGGTACCTGTGCCGGGCAGTACCAGTGGTGGCAGGGGATCCGAGATTTTCGTGTGCCCATA
TTGCCACAAAAAGTTTCGTCGCCAAGCCTATCTGCGCAAGCACCTGAGCACTCACGAGGCGGGCTCGGCCCGTGC
GCTAGCGCCGGGCTTTGGCTCCGAACGCGGTGCCCCACTTGCCTTCGCTTGCCCATTGTGCGGAGCGCACTTCCC
TACAGCAGATATCAGGGAGAAGCACCGGCTGTGGCATGCTGTCCGCGAGGAGCTGCTCCTGCCCGCTCTGGCGGG
GGCTCCTCCCGAAACGTCGGGCCCTAGCGGGCCATCTGACGGGAGTGCCCAGCAAATTTTCTCGTGCAAGCACTG
CCCGTCCACTTTTTTTAGCTCTCCAGGGCTGACCCGGCACATCAATAAGTGCCACCCCTCAGAAAGCCGGCAAGT
GCTGCTGCTGCAGATGCCACTGCGGCCTGGCTGCTGAGGGACGAGAGACCAGGATGATTTCGAGGTTGGCCTTAG
AGGAAACAGATCATGGGAATTTCTGTGGGGCTTTCTTCAACTTGCAAGTTTACTTTCATTCCTTCCTATGTTTTA
ATCCCCTAAAATTCTCCCTGTAGTCAATGTTCCACCAGAGGAGCGGACAGTGAAATGTAATATCCCTCTCTAGAG
CAGGTATGTATATGGTATAAACCTTGAGATCAAAGACTGTCAGCTTTAAATCCTTCTCACTTTCCCCACTAAAAT
AGGATTTTTCCCCTTAAAAACTCTGGAGACCCTAACGAATCCTATATGATTTGTAATTCCTATGGAAAGTCGCGGT
GAATGCGTGCATGTCTCAATGTCCACAAAGGATTCTGGCTACCCTTTGGTAGCCAATGTTTTTTTTGTCTTGTCA
TCACAGGCGCCTATACAGCTTCTGTCTCAATAGGGTCAGATATTTTGCACTGTATATTCTGTGAATTAAAAGTTA
TGTGATTGGTGTCAAACTTAAGGAGATTCAAGACCTGGCAGAAAATGTAAGAGGATTTTTGCTGCTTTTGGGGTG
CATGGGGATCTCCCCTGTAAACTTTCCTTTGCCCAATTATATGTACATGTCCATTCTTAAGTTGGTGTTTGGAGG
TGGGGAGGATGCTACTTTACTGGAGTTGAGACACCCCCTAAAATTCTCACCCTCAGCTATTTTGTGGGCAGTATT
CAGGAAGAGCTACTTCAAACCTTTCTTTAAATGGCTTTTTGGAAATACAGAAGTCGTTTCCTCAAGTTTGACTGT
TTTAATGGGGTTTCACCCAAATTGTTTAATGCTTCTGCTGTAAATGTCATACTGTGTATTCATTATGAAAATATG
TACAGCTTAAGGAAGATGTTAACACCTGTAATCCACTAAGGAACTGAATGGCAATTTGCTCAATATTCAGTATTT
TCTTTTCAGCGGCAACTTGTTTTTGATTTTTTTAAAAAACCATTTCAGTGTACATTGTGTACTAATTCCCTACTA
GCCAGTTTGGGACATTGGCTGAGCACTGCCTGACAGAAAGCCCGTATTTGTAAGATGCTTACCACCAAATAAATG
TACATAGACTGTG

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FIGURE 3950

TGCCGCCGTCCCGCCCGCCAGCGCCCCAGCGAGGAAGCAGCGCGCAGCCCGCGGCCCAGCGCACCCGCAGCAGCG
CCCGCAGCTCGTCCGCGCCATGTTCCAGGCGGCCGAGCGCGCCCCAGGAGTGGGCCATGGAGGGCCCCCGCGACGG
GCTGAAGAAGGAGCGGCTACTGGACGACCGCCACGACAGCGGCCTGGACTCCATGAAAGACGAGGAGTACGAGCA
GATGGTCAAGGAGCTGCAGGAGATCCGCCTCGAGCCGCAGGAGGTGCCGCGCGGCTCGGAGCCCTGGAAGCAGCA
GCTCACCGAGGACGGGGACTCGTTCCTGCACTTGGCCATCATCCATGAAGAAAAGGCACTGACCATGGAAGTGAT
CCGCCAGGTGAAGGGAGACCTGGCCTTCCTCAACTTCCAGAACAACCTGCAGCAGACTCCACTCCACTTGGCTGT
GATCACCAACCAGCCAGAAATTGCTGAGGCACTTCTGGGAGCTGGCTGTGATCCTGAGCTCCGAGACTTTCGAGG
AAATACCCCCCTACACCTTGCCTGTGAGCAGGGCTGCCTGGCCAGCGTGGGAGTCCTGACTCAGTCCTGCACCAC
CCCGCACCTCCACTCCATCCTGAAGGCTACCAACTACAATGGCCACACGTGTCTACACTTAGCCTCTATCCATGG
CTACCTGGGCATCGTGGAGCTTTTGGTGTCCTTGGGTGCTGATGTCAATGCTCAGGAGCCCTGTAATGGCCGGAC
TGCCCTTCACCTCGCAGTGGACCTGCAAAATCCTGACCTGGTGTCACTCCTGTTGAAGTGTGGGGCTGATGTCAA
CAGAGTTACCTACCAGGGCTATTCTCCCTACCAGCTCACCTGGGGCCGCCCAAGCACCCGGATACAGCAGCAGCT
GGGCCAGCTGACACTAGAAAACCTTCAGATGCTGCCAGAGAGTGAGGATGAGGAGAGCTATGACACAGAGTCAGA
GTTCACGGAGTTCACAGAGGACGAGCTGCCCTATGATGACTGTGTGTTTGGAGGCCAGCGTCTGACGTTATGAGC
GCAAAGGGGCTGAAAGAACATGGACTTGTATATTTGTACAAAAAAAAAGTTTTATTTTTCTAAAAAAAGAAAAAA
GAAGAAAAAATTTAAAGGGTGTACTTATATCCACACTGCACACTGCCTGGCCCAAAACGTCTTATTGTGGTAGGA
TCAGCCCTCATTTTGTTGCTTTTGTGAACTTTTTGTAGGGGACGAGAAAGATCATTGAAATTCTGAGAAAACTTC
TTTTAAACCTCACCTTTGTGGGGTTTTTGGAGAAGGTTATCAAAAATTTCATGGAAGGACCACATTTTATATTTA
TTGTGCTTCGAGTGACTGACCCCAGTGGTATCCTGTGACATGTAACAGCCAGGAGTGTTAAGCGTTCAGTGATGT
GGGGTGAAAAGTTACTACCTGTCAAGGTTTGTGTTACCCTCCTGTAAATGGTGTACATAATGTATTGTTGGTAAT
TATTTTGGTACTTTTATGATGTATATTTATTAAACAGATTTTTACAAATG

FIGURE 3951

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GAGTTCGGCATGCAAGAGCGGAAGAAACGCGGCTGGTACCCCGGAAGCAGTCGCTGCAACTTCCGGGAGGTGCTT
GTGTGCCTGGTGCGGGAGCTACGGGGCCCAGGGATTGTGTTTAAAGTAGTGCTTCTACCAACATGTCCCGTGGTT
CCAGCGCCGGTTTTGACCGCCACATTACCATTTTTTCACCCGAGGGTCGGCTCTACCAAGTAGAATATGCTTTTA
AGGCTATTAACCAGGGTGGCCTTACATCAGTAGCTGTCAGAGGGAAAGACTGTGCAGTAATTGTCACACAGAAGA
AAGTACCTGACAAATTATTGGATTCCAGCACAGTGACTCACTTATTCAAGATAACTGAAAACATTGGTTGTGTGA
TGACCGGAATGACAGCTGACAGCAGATCCCAGGTACAGAGGGCACGCTATGAGGCAGCTAACTGGAAATACAAGT
ATGGCTATGAGATTCCTGTGGACATGCTGTGTAAAAGAATTGCCGATATTTCTCAGGTCTACACACAGAATGCTG
AAATGAGGCCTCTTGGTTGTTGTATGATTTTAATTGGTATAGATGAAGAGCAAGGCCCTCAGGTATATAAGTGTG
ATCCTGCAGGTTACTACTGTGGGTTTAAAGCCACTGCAGCGGGAGTTAAACAAACTGAGTCAACCAGCTTCCTTG
AAAAAAAGTGAAGAAGAAATTTGATTGGACATTTGAACAGACAGTGGAAACTGCAATTACATGCCTGTCTACTG
TTCTATCAATTGATTTCAAACCTTCAGAAATAGAAGTTGGAGTAGTGACAGTTGAAAATCCTAAATTCAGGATTC
TTACAGAAGCAGAGATTGATGCTCACCTTGTTGCTCTAGCAGAGAGAGACTAAACATTGTCGTTAGTTTACCAGA
TCCGTGATGCCACTTACCTGTGTGTTTGGTAACAACAAACCAACATCATGGAGGTCCCTGGATTGAAAAAGGAGC
CTCTCCCACTCCTCCTACCACCGAAGTGGTTAGGACTCTATATAAATAAAAACAAGGCTTTTGG
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FIGURE 3952

MSRGSSAGFDRHITIFSPEGRLYQVEYAFKAINQGGLTSVAVRGKDCAVIVTQKKVPDKLLDSSTVTHLFKITEN
IGCVMTGMTADSRSQVQRARYEAANWKYKYGYEIPVDMLCKRIADISQVYTQNAEMRPLGCCMILIGIDEEQGPQ
VYKCDPAGYYCGFKATAAGVKQTESTSFLEKKVKKKFDWTFEQTVETAITCLSTVLSIDFKPSEIEVGVVTVENP
KFRILTEAEIDAHLVALAERD

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FIGURE 3953

CTCTCGGCTTTCGGCTTGGAGGAGGCCAAGGTGCAACTTTCTTTGGTCATTCCGCACCAGCCGCCTCCACC<u>ATG</u>C
CGCCAAAGTTCGACCCCAACGAAATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGAAGTCGGTGCCACTTCTG
CCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTGATGACATTGCCAAGGCAACGGGTG
ACTGGAAGGGCCTGAGGATTACAGTGAAACTGACCATTCAGAACAGACAGGCCCAGATTGAAGTGGTGCCTTCTG
CCTCTGCCCTAATCATCAAAGCTCTTAAGGAACCACCAAGACACAGAAAGAAATAGAAAAACATTAAACACCGTG
GGAATATCACTTTTGATGAGATCGTCAACATTGCTTGACAGATGCGGCACTGATCCTTAGCCAGAGAACTCTCTG
GAACCATTAAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGTAACGTTGATGGCCGCCACCCTCATGACATCA
TAGATCACATCAACATTGGTGCTGTGGAATGCCCAGCCAGT<u>TAA</u>GCACAAAGGAAAATATTTCAGTAAAGAATCA
TTTGACAACTGGTGA

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FIGURE 3954

MPPKFDPNEIKVVYLRCTGGEVGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGLRITVKLTIQNRQAQIEVVP
SASALIIKALKEPPRHRKKRKTLNTVGISLLMRSSTLLDRCGTDSLARELSGTIKEILGTAQSVGCNVDGRHPHD
IIDHINIGAVECPAS

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FIGURE 3955

GAAGAGGCGAGAACGACCCCCGGACTGACCAAAGCCCGCGCGCAGCTGCATCCCGCATCCAGCACCTACATCCCG
CCACCGTCGTGGCCGTCACC**ATG**CCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGG
ACGAACCGCAGAGAAGATCCGCGAGGTTGTCTGCCAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAGAAAGT
CCCCTGTAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCCCAGGAGGAGGGATTCCCTG
ACTCTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATTCGTTTTTATGTCCTCTTC
TCCTTTTCCATCTTTCAGCA**TAG**ACTTAACTCCCTTGAGCCGAGACATCTGTTGGGACCTGACCCCCAGTCATTG
ATTACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAAGAGCAGTGGTTC
CATTTCTAGATTGTGGATCTTCAGATAAATTCTGCCATTTTCATTTCACTTCCTGAAAGTCAGGGTCGGCTTGTG
AAAAGTTGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAAACTTTCCCTGTTCAGAGCATCAGAT
GAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTG
TATACTGTTAACAATTGTCTGCCCATGTCCTGCCTGAAATACCA

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FIGURE 3956

MPKRKAEGDAKGDKAKVKDEPQRRSARLSAKPAPPKPEPKPRKSPVKKGEKVPKGKKGKADAEEEGFPDSDTHGH
LGTKALWYRKTNSFLCPLLLFHLSA

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FIGURE 3957

ACTTTACGCAGGCGCGTTAGGTCCTAGTCGCTATGCGTGTGCTTGTGGGTGGCGGGACAGGCTTCATTGGGACAG
CCCTAACCCAGCTGCTGAATGCCAGAGGCCACGAAGTGACGTTGGTCTCCCGAAAGCCCGGGCCCGGCCGGATCA
CGTGGGATGAGCTCGCTGCATCGGGGCTGCCGAGCTGCGATGCCGCCGTCAACCTGGCCGGAGAGAACATCCTCA
ACCCTCTCCGAAGATGGAATGAAACCTTCCAAAAAGAGGTAATCGGCAGCCGCCTAGAGACCACCCAATTGCTGG
CTAAAGCCATCACCAAAGCCCCACAACCCCCCAAGGCCTGGGTCTTAGTCACAGGTGTAGCTTACTACCAGCCCA
GTCTGACTGCGGAGTATGATGAAGACAGCCCAGGAGGGGACTTTGACTTTTTCTCCAACCTCGTAACCAAATGGG
AAGCTGCAGCCAGGCTTCCTGGAGATTCTACACGCCAGGTGGTGGTGCGCTCAGGGGTTGTGCTGGGCCGTGGGG
GTGGTGCCATGGGCCACATGCTGCTGCCCTTTCGCCTGGGCCTGGGGGGCCCCATCGGCTCAGGCCACCAATTCT
TCCCCTGGATACACATCGGGGACCTGGCAGGAATCCTGACCCATGCCCTTGAAGCAAACCACGTGCACGGGGTCC
TGAATGGAGTGGCTCCATCCTCCGCCACTAATGCTGAGTTTGCCCAGACCTTGGGTGCTGCCCTGGGCCGCCGAG
CCTTCATCCCTCTCCCCAGCGCTGTGGTGCAAGCTGTCTTTGGGCGACAGCGTGCCATCATGCTGCTGGAGGGCC
AGAAGGTGATCCCACAGCGAACACTGGCCACTGGCTACCAGTATTCCTTCCCAGAGCTAGGGGCTGCCTTAAAGG
AAATTGTAGCCTAAGTAGGTCGTGGCAAGGGCCTGAGGCCTGTTCCTCACAGGCTTCCAGGTTAGGCACTGTGAA
TAGGCTCAGCTCCTCTAGAGAGCTGAAGCCATCTGGTTCTTAGATTCCTCTCCCAGTCCTCTTTCCCATTGTTCT
GTTGCTCCACCTTATTGTCTCAAGGCCGTAATCTCATCAGGTTGGGACATTAATCTTTTCAACTCCTTGTAAGAT
TTCCCAGTTTGGTTTCTCTACATGTCCTGCAGCTGCCCCACTTCTCCTTTACGCTGTGTAGAGAATGCTCTGCAG
TTTAGGCAATAAAAATAAATTGTCTCACT

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FIGURE 3958

ATGTCGTGCGTCAAGTTATGGCCCAGCGGTGCCCCCGCCCCCTTGGTGTCCATCGAGGAACTGGAGAACCAGGAG
CTCGTCGGCAAAGGCGGGTTCGGCACAGTGTTCCGGGCGCAACATAGGAAGTGGGGCTACGATGTGGCGGTCAAG
ATCGTAAACTCGAAGGCGATATCCAGGGAGGTCAAGGCCATGGCAAGTCTGGATAACGAATTCGTGCTGCGCCTA
GAAGGGGTTATCGAGAAGGTGAACTGGGACCAAGATCCCAAGCCGGCTCTGGTGACTAAATTCATGGAGAACGGC
TCCTTGTCGGGGCTGCTGCAGTCCCAGTGCCCTCGGCCCTGGCCGCTCCTTTGCCGCCTGCTGAAAGAAGTGGTG
CTTGGGATGTTTTACCTGCACGACCAGAACCCGGTGCTCCTGCACCGGGACCTCAAGCCATCCAACGTCCTGCTG
GACCCAGAGCTGCACGTCAAGCTGGCAGATTTTGGCCTGTCCACATTTCAGGGAGGCTCACAGTCAGGGACAGGG
TCCGGGGAGCCAGGGGGCACCCTGGGCTACTTGGCCCCAGAACTGTTTGTTAACGTAAACCGGAAGGCCTCCACA
GCCAGTGACGTCTACAGCTTCGGGATCCTAATGTGGGCAGTGCTTGCTGGAAGAGAAGTTGAGTTGCCAACCGAA
CCATCACTCGTGTACGAAGCAGTGTGCAACAGGCAGAACCGGCCTTCATTGGCTGAGCTGCCCCAAGCCGGGCCT
GAGACTCCCGGCTTAGAAGGACTGAAGGAGCTAATGCAGCTCTGCTGGAGCAGTGAGCCCAAGGACAGACCCTCC
TTCCAGGAATGCCTACCAAAAACTGATGAAGTCTTCCAGATGGTGGAGAACAATATGAATGCTGCTGTCTCCACG
GTAAAGGATTTCCTGTCTCAGCTCAGGAGCAGCAATAGGAGATTTTCTATCCCAGAGTCAGGCCAAGGAGGGACA
GAAATGGATGGCTTTAGGAGAACCATAGAAAACCAGCACTCTCGTAATGATGTCATGGTTTCTGAGTGGCTAAAC
AAACTGAATCTAGAGGAGCCTCCCAGCTCTGTTCCTAAAAAATGCCCGAGCCTTACCAAGAGGAGCAGGGCACAA
GAGGAGCAGGTTCCACAAGCCTGGACAGCAGGCACATCTTCAGATTCGATGGCCCAACCTCCCCAGACTCCAGAG
ACCTCAACTTTCAGAAACCAGATGCCCAGCCCTACCTCAACTGGAACACCAAGTCCTGGACCCCGAGGGAATCAG
GGGGCTGAGAGACAAGGCATGAACTGGTCCTGCAGGACCCCGGAGCCAAATCCAGTAACAGGGCGACCGCTCGTT
AACATATACAACTGCTCTGGGGTGCAAGTTGGAGACAACAACTACTTGACTATGCAACAGACAACTGCCTTGCCC
ACATGGGGCTTGGCACCTTCGGGCAAGGGGAGGGGCTTGCAGCACCCCCCACCAGTAGGTTCGCAAGAAGGCCCT
AAAGATCCTGAAGCCTGGAGCAGGCCACAGGGTTGGTATAATCATAGCGGGAAATAA

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FIGURE 3959

GGGGCAAGGGAAGCTAGTAGCGGAGCCGGAAGTGAGGCACCCTCGGGCTCGAGACAGCGGCGACGTTTAAAGCTG
AGCGACCCAGTGCCACTGGAGACGGTCAGCTTCTCCACTCAGGCTCCTCCAGCCCGAGCCAGAAGACCCCCTCCC
CCAGAATTCTGGGGGCCGATGGAAGGGAGCCGAGTCAGATCGCGAGGTACCCAGAGCCGACAGACCGGAGCGACA
GGGAGTTGCCAGAAGCCCCGCCCCTAGGAGTGATCGGAAAGCCTCACCCATCCGGGTGAGGAACCCGGAGGGACC
GCCTCCGGGCGGAGCCCGCCGACCATGGCTACGCCCCTGGTGGCGGGTCCCGCAGCTCTACGCTTCGCCGCCGCG
GCTAGCTGGCAGGTTGTGCGCGGACGCTGCGTGGAACATTTTCCGCGAGTACTGGAGTTTCTGCGATCTCTGCGC
GCTGTTGCCCCTGGCTTGGTTCGCTACCGGCACCACGAACGCCTTTGTATGGGCCTAAAGGCCAAGGTGGTGGTG
GAGCTGATCCTGCAGGGCCGGCCTTGGGCCCAAGTCCTGAAAGCCCTGAATCACCACTTTCCAGAATCTGGACCT
ATAGTGCGGGATCCCAAGGCTACAAAGCAGGATCTGAGGAAGATTTTGGAGGCACAGGAAACTTTTTACCAGCAG
GTGAAGCAGCTGTCAGAGGCTCCTGTGGATTTGGCCTCGAAGCTGCAGGAACTTGAACAAGAGTATGGGGAACCC
TTTCTGGCTGCCATGGAAAAGCTGCTTTTTGAGTACTTGTGTCAGCTGGAGAAAGCACTGCCTACACCGCAGGCA
CAGCAGCTTCAGGATGTGCTGAGTTGGATGCAGCCTGGAGTCTCTATCACCTCTTCTCTTGCCTGGAGACAATAT
GGTGTGGACATGGGGTGGCTGCTTCCAGAGTGCTCTGTTACTGACTCAGTGAACCTGGCTGAGCCCATGGAACAG
AATCCTCCTCAGCAACAAAGACTAGCACTCCACAATCCCCTGCCAAAAGCCAAGCCTGGCACACATCTTCCTCAG
GGACCATCTTCAAGGACGCACCCAGAACCTCTAGCTGGCCGACACTTCAATCTGGCCCCTCTAGGCCGACGAAGA
GTTCAGTCCCAATGGGCCTCCACTAGGGGAGGCCATAAGGAGCGCCCCACAGTCATGCTGTTTCCCTTTAGGAAT
CTCGGCTCACCAACCCAGGTCATATCTAAGCCTGAGAGCAAGGAAGAACATGCGATATACACAGCAGACCTAGCC
ATGGGCACAAGAGCAGCCTCCACTGGGAAGTCTAAGAGTCCATGCCAGACCCTGGGGGGAAGGGCTCTGAAGGAG
AACCCAGTTGACTTGCCTGCCACAGAGCAAAAGGAGAATTGCTTGGATTGCTACATGGACCCCCTGAGACTATCA
TTATTACCTCCTAGGGCCAGGAAGCCAGTGTGTCCTCCGTCTCTGTGCAGCTCCGTCATTACCATAGGGGACTTG
GTTTTAGACTCTGATGAGGAAGAAAATGGCCAGGGGGAAGGAAAGGAATCTCTGGAAAACTATCAGAAGACAAAG
TTTGACACCTTGATACCCACTCTCTGTGAATACCTACCCCCTTCTGGCCACGGTGCCATACCTGTTTCTTCCTGT
GACTGTAGAGACAGTTCTAGACCTTTGTGATAGAACTAAAATGCTCTCTGTACTCTAGTCTCCTGCCTCCTCAGC
TCTGCAAGTAGTTTAGTAGGAATGAAGTGGAAGTCCAGGCTTGGATTGCCTAACTACACTGCTAAAAATATTTGT
AATCCTTAATAATTAAACTTTGGATTTGTT

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FIGURE 3960

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CCATGGAGTCAGCCGGGCTAGAGCAGCTCCTACGGGAGCTGCTGCTACCGGACACCGAGCGCATCCGTCGGGCCA
CGGAACAGCTCCAGATCGTTCTTCGGGCCCCGCCGCTTTGCCGGCTCTCTGCGACCTGCTAGCCTCGGCGGCCG
ACCCCCAGATCCGCCAGTTTGCGGCCGTGCTGACCCGCAGACGACTGAACACCCGCTGGCGACGGCTGGCGGCGG
AGCAACGGGAGAGCCTCAAGTCCCTGATCCTGACGGCCCTGCAGAGAGAAACAGAGCACTGTGTGAGCCTCAGCC
TGGCCCAGCTCTCAGCCACCATTTTTCGAAAGGAAGGCTTGGAGGCCTGGCCACAGCTTTTGCAGCTGCTTCAGC
ACAGTACCCACAGCCCCCACAGCCCAGAGAGAGAGATGGGGCTTTTGCTGCTAAGTGTGGTGGTGACCTCCCGGC
CCGAGGCCTTCCAACCCCACCACCGGGAGCTTCTTCGGCTTCTGAATGAGACTCTTGGTGAGGTGGGCTCTCCTG
GGCTGCTCTTCTACTCCCTGCGCACTCTGACCACCATGGCTCCCTACCTCAGCACTGAAGATGTGCCTCTCGCTC
GGATGTTGGTGCCCAAGCTGATCATGGCCATGCAGACTCTGATCCCCATAGATGAGGCAAAGGCCTGTGAGGCCC
TTGAGGCTTTGGATGAACTGTTGGAGTCAGAGGTGCCGGTCATCACCCCCTACCTCTCTGAAGTCCTCACATTCT
GCCTGGAGGTAGCTAGAAATGTGGCCCTGGGCAATGCGATACGCATACGTATTCTCTGCTGCCTCACTTTCTTGG
TCAAAGTCAAGAGCAAGGCCTTACTGAAGAATCGTCTCCTGCCACCCTTGCTGCACACCCTTTTCCCCATTGTGG
CTGCTGAGCCCCCACCAGGCCAGTTGGATCCCGAGGACCAGGATTCAGAAGAGGAAGAGTTGGAGATTGAGCTGA
TGGGGGAGACTCCCAAGCATTTCGCTGTACAAGTTGTGGACATGCTGGCACTACACCTGCCCCCCGAGAAGCTCT
GTCCCCAGCTGATGCCCATGTTGGAAGAGGCTTTGCGGAGCGAGAGCCCATACCAGCGCAAAGCTGGACTCCTGG
TGCTGGCCGTGCTGTCTGACGGAGCTGGCGACCACATCAGGCAGAGACTGCTGCCCCACTGCTGCAGATTGTGT
GCAAGGGCCTGGAGGACCCCTCGCAAGTTGTACGCAATGCTGCGCTGTTTGCCCTGGGCCAGTTCTCAGAAAACC
TACAGCCCCATATCAGCAGCTATTCAAGGGAGGTAATGCCACTGCTCCTCGCCTACTTGAAGTCGGTGCCTCTTG
GACACACACACCACCTAGCCAAGGCCTGCTATGCCCTGGAGAATTTTGTGGAGAACCTAGGGCCCAAGGTGCAGC
CCTACCTTCCGGAGCTTATGGAATGCATGCTGCAGCTTCTGAGGAACCCCAGCAGTCCCCGGGCCAAGGAGCTGG
CTGTGAGCGCCCTGGGAGCCATTGCTACGGCTGCCCAGGTCTCGCTGCTGCCCTACTTCCCTGCCATCATGGAGC
ACCTGCGGGAATTCCTGTTAACAGGCCGTGAGGACCTTCAGCCTGTGCAGATCCAGAGCCTGGAGACACTGGGGG
TGCTGGCACGAGCAGTGGGGGGAGCCCATGAGGCCGCTGGCTGAGGAATGCTGCCAGCTGGGTCTGGGCCTCTGCG
ACCAGGTAGACGACGCTGACTTGCGGCGCTGCACGTACAGCCTATTTGCAGCCTTATCGGGTCTGATGGGTGAGG
GCCTGGCGCCCCACTTGGAACAGATCACCACGCTCATGCTGCTGTCACTGCGTTCCACCGAGGGCATTGTGCCTC
AGTATGACGGGAGCAGCTCCTTCCTTCTGTTTGACGATGAGAGTGATGGGGAAGAAGAGGAGGAGCTCATGGATG
AGGATGTGGAAGAAGAGGATGACTCAGAGATCTCAGGGTACAGCGTGGAGAATGCCTTCTTCGATGAGAAGGAAG
ACACCTGTGCTGCCGTGGGGGAGATCTCTGTGAACACCAGTGTGGCCTTCCTTCCATACATGGAAAGTGTCTTTG
AAGAAGTATTTAAACTGCTGGAGTGCCCTCACCTGAATGTGCGGAAGGCAGCCCATGAGGCTCTGGGTCAGTTTT
GCTGTGCACTGCACAAGGCCTGTCAAAGCTGCCCCTCGGAACCCAACACTGCTGCTTTGCAGGCTGCCCTGGCCC
GAGTCGTGCCATCCTACATGCAGGCAGTGAACAGGGAGCGGGAACGCCAGGTGGTGATGGCCGTGCTGGAGGCCC
TGACAGGGGTGCTCCGCAGCTGTGGGACCCTCACACTGAAGCCCCCTGGGCGCCTCGCTGAGCTCTGTGGCGTGC
TCAAGGCTGTGCTGCAGAGGAAGACAGCCTGTCAGGATACTGACGAGGAGGAGGAAGAGGAAGATGATGATCAGG
CTGAATACGACGCCATGTTGCTGGAGCACGCTGGAGAGGCCATCCCTGCCCTGGCAGCCGCGGCTGGGGGAGACT
CCTTTGCCCCATTCTTTGCCGGTTTCCTGCCATTATTGGTGTGCAAGACAAAACAGGGCTGCACAGTGGCAGAGA
AGTCCTTTGCAGTGGGGACCTTGGCAGAGACTATTCAGGGCCTGGGTGCTGCCTCAGCCCAGTTTGTGTCTCGGC
TGCTCCCTGTGCTGTTGAGCACCGCCCAAGAGGCAGACCCCGAGGTGCGAAGCAATGCCATCTTCGGGATGGGCG
TGCTGGCAGAGCATGGGGGCCACCCTGCCCAGGAACACTTCCCCAAGCTGCTGGGGCTCCTTTTTCCCCTCCTGG
CGCGGGAGCGACATGATCGTGTCCGTGACAACATCTGTGGGCACTTGCCCGCCTGTTGATGGCCAGTCCCCACCA
GGAAACCAGAGCCCCAGGTGCTGGCTGCCCTACTGCATGCCCTGCCACTGAAGGAGGACTTGGAGGAGTGGGTCA
CCATTGGGCGCCTCTTCAGCTTCCTGTACCAGAGCAGCCCTGACCAGGTTATAGATGTGGCTCCCGAGCTTCTGC
GTATCTGCAGCCTCATTCTGGCTGACAACAAGATCCCACCAGACACCAAGGCCGCACTGTTGCTGCTCCTGACGT
TCCTGGCCAAACAGCACACCGACAGCTTTCAAGCAGCTCTGGGCTCACTGCCTGTTGACAAGGCTCAGGAGCTCC
AGGCTGTACTGGGCCTCTCCTAGACTGCAGGCTGCAGCCAGTCCAGAGAGAATAGAGCCTGCCCA
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FIGURE 3961

MESAGLEQLLRELLLPDTERIRRATEQLQIVLRAPAALPALCDLLASAADPQIRQFAAVLTRRRLNTRWRRLAAE
QRESLKSLILTALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLLQLLQHSTHSPHSPEREMGLLLLSVVVTSRP
EAFQPHHRELLRLLNETLGEVGSPGLLFYSLRTLTTMAPYLSTEDVPLARMLVPKLIMAMQTLIPIDEAKACEAL
EALDELLESEVPVITPYLSEVLTFCLEVARNVALGNAIRIRILCCLTFLVKVKSKALLKNRLLPPLLHTLFPIVA
AEPPPGQLDPEDQDSEEEELEIELMGETPKHFAVQVVDMLALHLPPEKLCPQLMPMLEEALRSESPYQRKAGLLV
LAVLSDGAGDHIRQRLLPPLLQIVCKGLEDPSQVVRNAALFALGQFSENLQPHISSYSREVMPLLLAYLKSVPLG
HTHHLAKACYALENFVENLGPKVQPYLPELMECMLQLLRNPSSPRAKELAVSALGAIATAAQVSLLPYFPAIMEH
LREFLLTGREDLQPVQIQSLETLGVLARAVGEPMRPLAEECCQLGLGLCDQVDDADLRRCTYSLFAALSGLMGEG
LAPHLEQITTLMLLSLRSTEGIVPQYDGSSSFLLFDDESDGEEEEELMDEDVEEEDDSEISGYSVENAFFDEKED
TCAAVGEISVNTSVAFLPYMESVFEEVFKLLECPHLNVRKAAHEALGQFCCALHKACQSCPSEPNTAALQAALAR
VVPSYMQAVNRERERQVVMAVLEALTGVLRSCGTLTLKPPGRLAELCGVLKAVLQRKTACQDTDEEEEEDDDQA
EYDAMLLEHAGEAIPALAAAAGGDSFAPFFAGFLPLLVCKTKQGCTVAEKSFAVGTLAETIQGLGAASAQFVSRL
LPVLLSTAQEADPEVRSNAIFGMGVLAEHGGHPAQEHFPKLLGLLFPLLARERHDRVRDNICGALARLLMASPTR
KPEPQVLAALLHALPLKEDLEEWVTIGRLFSFLYQSSPDQVIDVAPELLRICSLILADNKIPPDTKAALLLLLTF
LAKQHTDSFQAALGSLPVDKAQELQAVLGLS

FIGURE 3962

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ATCTAATGAGGAGCGAGGTGCGGTGCCCCGAAGCGCTCGCTTCCCGCGGTGCGATCTAGTCCTGCAGTAGGCGGC
CCGGGGCCACACCGCGGCCGCCCAAGCCAGTGCAAGGCCCAGGGGCCTGACATCGCTCCCAGCGCTCGAGGACCG
AGGCCTGCTGTGGAGGACACCGTGCTCCCTCGGGACCTGCTCTGGATTCCGGCCCGGACGTCCCCTTGGAGCTCT
GCATCTCCAACCTGGAACCCAACCCAGAAGTCTCAAGTTTGACGCATCACGTGGCGTGCGGATCCACTGAGGGTC
CACAGAGAGGGCGCCCATCTCCTGCGTCTCAGTTATCCTGGTGTTGGGAATTCTGTGCCCTAAAGAATTCCGAC
TCAGATCCGAACGGGGATCTGGTGGAATCGAGGGTGAAAGACCAGAGGGACAATGTTCTACTATCCCAACGTGCT
TCAGCGCCACACCGGCTGCTTTGCCACCATCTGGCTGGCGGCGACTCGCGGCAGCCGGTTGGTGAAGCGCGAATA
CCTGAGGGTGAATGTGGTGAAAACCTGCGAGGAAATCCTCAATTACGTGCTGGTACGAGTGCAACCCCCGCAGCC
CGGCCTGCCGCGGCCCCGCTTCTCCCTCTATCTCTCAGCCCAACTTCAGATCGGTGTGATCCGCGTCTATTCTCA
ACAATGCCAGTACCTCGCGGAGGACATCCAGCACATCTTGGAGCGCCTCCACCGTGCCCAGCTGCAGATCCGAAT
AGATATGGAGACTGAGCTACCCAGCCTGCTGCTTCCTAACCACCTGGCCATGATGGAGACCCTAGAAGATGCTCC
AGATCCCTTTTTTGGGATGATGTCTGTGGATCCCAGACTTCCTAGTCCTTTCGATATCCCTCAGATTCGACACCT
CTTAGAGGCTGCAATCCCAGAGAGAGTTGAAGAGATCCCTCCTGAAGTTCCTACAGAGCCCAGGGAGCCAGAGAG
GATTCCGGTCACTGTGCTGCCACCTGAGGCCATCACGATCCTGGAGGCAGAGCCCATACGGATGCTGGAGATTGA
GGGTGAACGGGAGCTCCCAGAGGTCAGCCGCCGAGAACTGGACCTGCTGATCGCAGAGGAAGAAGAAGCTATCTT
GTTAGAAATCCCGCGGCTCCCACCTCCAGCTCCTGCAGAGGTGGAAGGAATAGGAGAGGCACTGGGTCCTGAGGA
GCTGAGGCTGACAGGCTGGGAACCTGGGGCCCTACTCATGGAGGTGACCCCCCCGGAGGAGCTGCGTCTGCCAGC
CCCACCCAGCCCAGAGAGGAGGCCCCCAGTCCCCCCACCTCCTCGCCGCCGCCGTCGTCGCCGGTTACTGTTCTG
GGACAAGGAGACTCAGATCTCCCCGGAGAAATTCCAGGAACAACTGCAAACCAGAGCCCACTGCTGGGAATGTCC
TATGGTGCAGCCGCCCGAGAGGACCATCAGAGGCCCTGCGGAGTTGTTCAGAACCCCAACTCTCTCTGGCTGGCT
ACCCCCTGAACTACTGGGTCTCTGGACCCATTGTGCCCAGCCACCCCCAAAAGCCCTCAGGCGAGAGCTGCCTGA
GGAGGCAGCCGCTGAGGAGGAAAGGAGAAAGATTGAAGTTCCAAGTGAGATTGAGGTCCCGAGGGAGGCCCTGGA
GCCCAGTGTTCCCCTTATGGTGTCTTTAGAGATCTCCCTAGAGGCAGCTGAAGAGGAGAAGTCCCGCATCAGCCT
CATCCCACCAGAAGAACGGTGGGCCTGGCCTGAGGTGGAGGCGCCAGAAGCTCCTGCATTGCCCGTGGTGCCTGA
ACTCCCTGAGGTGCCCATGGAGATGCCTTTGGTGCTGCCCCCAGAGCTCGAGCTGCTCTCACTGGAAGCAGTGCA
CAGGGCAGTGGCACTGGAGCTGCAGGCTAACAGGGAGCCCGACTTCAGCAGCCTGGTGTCACCTCTCAGCCCCCG
CAGGATGGCTGCCCGGGTCTTCTACCTGCTCCTGGTGCTCTCAGCGCAACAGATTCTTCACGTGAAACAAGAAAA
GCCATATGGTCGCCTCCTGATCCAGCCGGGGCCCAGATTCCACTGAGGTTAGAGTCCATTTACAAAGCTGCCAGG
AAACCGGCCACTTCTAGTAAACCACGTCGTGCCTCACTGGGTCCTGCTTACCTCATTTCTGAATGTGCATTTCCA
GCCTTCTTGCTCTCAGAGCTATTGTTCAAGCAGAAAACAAGCTGCTTTTATTACAGT
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4297/6881
FIGURE 3963

MFYYPNVLQRHTGCFATIWLAATRGSRLVKREYLRVNVVKTCEEILNYVLVRVQPPQPGLPRPRFSLYLSAQLQI
GVIRVYSQQCQYLAEDIQHILERLHRAQLQIRIDMETELPSLLLPNHLAMMETLEDAPDPFFGMMSVDPRLPSPF
DIPQIRHLLEAAIPERVEEIPPEVPTEPREPERIPVTVLPPEAITILEAEPIRMLEIEGERELPEVSRRELDLLI
AEEEEAILLEIPRLPPPAPAEVEGIGEALGPEELRLTGWEPGALLMEVTPPEELRLPAPPSPERRPPVPPPPRRR
RRRRLLFWDKETQISPEKFQEQLQTRAHCWECPMVQPPERTIRGPAELFRTPTLSGWLPPELLGLWTHCAQPPPK
ALRRELPEEAAAEEERRKIEVPSEIEVPREALEPSVPLMVSLEISLEAAEEEKSRISLIPPEERWAWPEVEAPEA
PALPVVPELPEVPMEMPLVLPPELELLSLEAVHRAVALELQANREPDFSSLVSPLSPRRMAARVFYLLLVLSAQQ
ILHVKQEKPYGRLLIQPGPRFH

4298/6881
FIGURE 3964

CCCGCCTTCCATACCTCCCCGGCTCCGCTCGGTTCCTGGCCACCCCGCAGCCCCTGCCCAGGTGCC<u>ATGG</u>CCGCA
TTGTACCGCCCTGGCCTGCGGCTTAACTGGCATGGGCTGAGCCCCTTGGGCTGGCCATCATGCCGTAGCATCCAG
ACCCTGCGAGTGCTTAGTGGAGATCTGGGCCAGCTTCCCACTGGCATTCGAGATTTTGTAGAGCACAGTGCCCGC
CTGTGCCAACCAGAGGGCATCCACATCTGTGATGGAACTGAGGCTGAGAATACTGCCACACTGACCCTGCTGGAG
CAGCAGGGCCTCATCCGAAAGCTCCCCAAGTACAATAACTGCTGGCTGGCCCGCACAGACCCCAAGGATGTGGCA
CGAGTAGAGAGCAAGACGGTGATTGTAACTCCTTCTCAGCGGGACACGGTACAACTCCCGCCTGGTGGGGCCCGT
GGGCAGCTGGGCAACTGGATGTCCCCAGCTGATTTCCAGCGAGCTGTGGATGAGAGGTTTCCAGGCTGCATGCAG
GGCCGCACCATGTATGTGCTTCCATTCAGCATGGGTCCTGTGGGCTCCCCGCTGTCCCGCATCGGGGTGCAGCTC
ACTGACTCAGCCTATGTGGTGGCAAGCATGCGTATTATGACCCGACTGGGGACACCTGTGCTTCAGGCCCTGGGA
GATGGTGACTTTGTCAAGTGTCTGCACTCCGTGGGCCAGCCCCTGACAGGACAAGGGGAGCCAGTGAGCCAGTGG
CCGTGCAACCCAGAGAAAACCCTGATTGGCCACGTGCCCGACCAGCGGGAGATCATCTCCTTCGGCAGCGGCTAT
GGTGGCAACTCCCTGCTGGGCAAGAAGTGCTTTGCCCTACGCATCGCCTCTCGGCTGGCCCGGGATGAGGGCTGG
CTGGCAGAGCACATGCTGATCCTGGGCATCACCAGCCCTGCAGGGAAGAAGCGCTATGTGGCAGCCGCCTTCCCT
AGTGCCTGTGGCAAGACCAACCTGGCTATGATGCGGCCTGCACTGCCAGGCTGGAAAGTGGAGTGTGTGGGGGAT
GATATTGCTTGGATGAGGTTTGACAGTGAAGGTCGACTCCGGGCCATCAACCCTGAGAACGGCTTCTTTGGGGTT
GCCCCTGGTACCTCTGCCACCACCAATCCCAACGCCATGGCTACAATCCAGAGTAACACTATTTTTACCAATGTG
GCTGAGACCAGTGATGGTGGCGTGTACTGGGAGGGCATTGACCAGCCTCTTCCACCTGGTGTTACTGTGACCTCC
TGGCTGGGCAAACCCTGGAAACCTGGTGACAAGGAGCCCTGTGCACATCCCAACTCTCGATTTTGTGCCCCGGCT
CGCCAGTGCCCCATCATGGACCCAGCCTGGGAGGCCCCAGAGGGTGTCCCCATTGACGCCATCATCTTTGGTGGC
CGCAGACCCAAAGGGGTACCCCTGGTATACGAGGCCTTCAACTGGCGTCATGGGGTGTTTGTGGGCAGCGCCATG
CGCTCTGAGTCCACTGCTGCAGCAGAACACAAAGGGAAGATCATCATGCACGACCCATTTGCCATGCGGCCCTTT
TTTGGCTACAACTTCGGGCACTACCTGGAACACTGGCTGAGCATGGAAGGGCGCAAGGGGGCCCAGCTGCCCCGT
ATCTTCCATGTCAACTGGTTCCGGCGTGACGAGGCAGGGCACTTCCTGTGGCCAGGCTTTGGGGAGAATGCTCGG
GTGCTAGACTGGATCTGCCGGCGGTTAGAGGGGGAGGACAGTGCCCGAGAGACACCCATTGGGCTGGTGCCAAAG
GAAGGAGCCTTGGATCTCAGCGGCCTCAGAGCTATAGACACCACTCAGCTGTTCTCCCTCCCCAAGGACTTCTGG
GAACAGGAGGTTCGTGACATTCGGAGCTACCTGACAGAGCAGGTCAACCAGGATCTGCCCAAAGAGGTGTTGGCT
GAGCTTGAGGCCCTGGAGAGACGTGTGCACAAAAATG<u>TGA</u>CCTGAGGCCCTAGTCTAGCAAGAGGACATAGCACCC
TCATCTGGGAATAGGGAAGGCACCTTGCAGAAAATATGAGCAATTTGATATTAACTAACATCTTCAATGTGCCAT
AGACCTTCCCACAAAGACTGTCCAATAATAAGAGATGCTTATCTATTTT

4299/6881
FIGURE 3965

MAALYRPGLRLNWHGLSPLGWPSCRSIQTLRVLSGDLGQLPTGIRDFVEHSARLCQPEGIHICDGTEAENTATLT
LLEQQGLIRKLPKYNNCWLARTDPKDVARVESKTVIVTPSQRDTVQLPPGGARGQLGNWMSPADFQRAVDERFPG
CMQGRTMYVLPFSMGPVGSPLSRIGVQLTDSAYVVASMRIMTRLGTPVLQALGDGDFVKCLHSVGQPLTGQGEPV
SQWPCNPEKTLIGHVPDQREIISFGSGYGGNSLLGKKCFALRIASRLARDEGWLAEHMLILGITSPAGKKRYVAA
AFPSACGKTNLAMMRPALPGWKVECVGDDIAWMRFDSEGRLRAINPENGFFGVAPGTSATTNPNAMATIQSNTIF
TNVAETSDGGVYWEGIDQPLPPGVTVTSWLGKPWKPGDKEPCAHPNSRFCAPARQCPIMDPAWEAPEGVPIDAII
FGGRRPKGVPLVYEAFNWRHGVFVGSAMRSESTAAAEHKGKIIMHDPFAMRPFFGYNFGHYLEHWLSMEGRKGAQ
LPRIFHVNWFRRDEAGHFLWPGFGENARVLDWICRRLEGEDSARETPIGLVPKEGALDLSGLRAIDTTQLFSLPK
DFWEQEVRDIRSYLTEQVNQDLPKEVLAELEALERRVHKM

4300/6881
FIGURE 3966

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TACATTGGGTCTACTGCACAAATTACAGGGCTCCAAGTGTCTTATGAGAGCAGGACTTGGGCTGACCATGTCTCT
CTGCCCTCACCCATGCTCTGCTCTGATTTCAGATCCTAAGTGTGAACGTGAAGTCCCCAGCCCTGCTGCTGAGCC
AGTTGCTGCCCTACATGGAGAACAGGTATGGCAGGGCGGGGGTGGGGACCAGTCGGAGTTGGGGACCTGAGGTGG
GCACAGAAATACAGTCGGTAGCACAGCCAGTAGTGGGTAGAGGACAGAAGAGGTCTGGGATCTCCACATCCCTCA
TCTTCTTGTCCTGCCTCCCCATCTGTGTGGCTGCCATTCCCAATTCCAGTGGCTGCAGGATGAGAGTAGTATTCC
AGGGGCCCAGGCATAGCCTCCTTGGCCTTGACATCAGCAGGTTTGGGACAAGGCTATGCTTTAACTCCTTGACCT
TGTGGGCTGGTCATTGTCACCTTACCTGCTCTCTGTTCTTACCAACTTAAAACCAATGACAGGGTTAGCCCCATT
CCTCTCCATAGGAAAAGCCTGTCCCAGACCTCTCCTCATGCCTGCGCTTGGTCTCCAGGGACCCTGCCTGTGTT
CCAGGTCCTGCAGATCTGACTGTACCCCTCACAGACACACCCTTAGGAACTGGCCAGGGGCTGTCTTCAGTAGAA
GGAAAGTTCCTGACTGTCACTTCTGGTCTCCCTTACCCCATCTGCTCCTTAGAGGTTGCTCATTGATAGGCACTC
ACCATCAGCCTTGGGTGCCTCTTCACAAAGCCCACCCTGCCCTCTCCTTCAAGCACCTGGCAAGAGAGGAAGCAG
AAGATAAGGGTTCTGAGCATGGACATCGTATTTATGAGAAATAGGCATGGAATCCTAGCTCTGCCGTGTATTGGC
TGGTACTAAACCTTTCTGAGCCTCAGTTTTCTGAACTCTGAGATGGGGACAGTAATAGGACCTGTGTTGCTTCTG
TGAGGGTTGCATCATTTAATGAACTCATGATAGTGTCACCATCAGTGGTAAGCTCTTAGCTTCAGCTTCTCTTAT
GTTTGTCTTGTCTCAGGAGGGGTGCTGTCATCCTGGTCTCTTCCATTGCAGCTTATAATCCAGTAGTGGTAAGTG
CTTGGTCCTTGTGCTCCTGAGTGGTATAGGGTGAGGGGCAACTTTGTTCTTTTCCTCAGAGCCTTACAGACAAAG
TGCCTGGGACAGACCCCCACCATCCTCCTGCTGCCCTGGGCTGAGCTTGTCTCCATGTGGGTGGGAGGGCTGCTG
GGCCTGTGAGATCCCTGTAGGTGAGAAATCCAACTGATGCTTTCCCCCACTCTCCCATATCCTAATCACTCTGTC
AATTCCCTTCCCAGGCGCTGGGTGTCTACAATGTCAGCAAGACAGCGCTGCTGGGTCTCACTAGAACACTGGCAT
TGGAGCTGGCCCCCAAGGACATCCGGGTAAACTGCGTGGTTCCAGGAATTATCAAAACTGACTTCAGCAAAGTGG
TGAGGATTGGGTGTGTCTTCCATCTCCCAGTCTGGCTCAGTGGGAACCCTTCCCAGTGAATAAGGGATCAAGGGG
TGACTGAATCCTTAGGTCAGCATGCCTATGACTGAGGTCCTCATTGTTCTCTGAACTCAGCCATGGTGCAGTCCA
TCCATCCTGAAAAGATGCTCCTTCTTTTGAGAAGGGCAAAGCTGCCCTAGGTGTTCTGCCTGGTGGCCTTCCCGG
GGCCCTGCCCATCTTGTTTTAGTAGCACTGACTCCTTCATTTCTTCCCTTTGCCCAGTTTCATGGGAATGAGTCT
CTCTGGAAGAACTTCAAGGAACATCATCAGCTGCAGAGGCAAGTGGGGTTTGGAGATTTGGTGGTCCATGTGTGG
CTAGGCAGGGGCAGTTGAGTCTATTGCAAGAGCAGACCCCTCCCTGTCATCTGGCCATTGTTTTTGCTGAAATCT
GGAGTCCACATGGCCCTGGAGGGTGCAAGTAGCCCTGCTGCATCCACCTTGTTCCCCATGGAGCCCACTCCCACC
TGTCATCCGTGAGCCCCAGAGCAGCAGAATCAGAGTACAAGATGCTTGACACTGTGTCCTTCTTCCATCCAGGAT
TGGGGAGTCAGAGGACTGTGCAGGAATCGTGTCCTTCCTGTGCTCTCCAGATGCCAGCTACGTCAACGGGGAGAA
CATTGCGGTGGCAGGCTACTCCACTCGGCTCTGAGAGGAGTGGGGGCGGCTGCGTAGCTGTGGTCCCAGGCCCAG
GAGCCTGAGGGGGTGTCTAGGTGATCATTTGGATCTGGAGGCAGAGTCTGCCATTCTGCCAGACTAGCAATTTGG
GGGCTTACTCATGCTAGGCTTGAGGAAGAAGAAAACGCTTCGGCATTCTCCTTAGGACTTATCTGCTTGTAGAT
TTGGCTGATCCAATTAACATGTGGGGTTCTTGGTGTGGGTCTGGGGAGCTGAAGGATTTTATGGAGCTGGTGCTT
TGGAGGAATCTTAAGGGAAAGGAGTAGAAGCTCAGGCCTTTGAAGGATTTCAGCTCCTCCTCTCTGTAATTTGTG
CTTTAAGCATTTTTTTTCCTAAAATAAACTCAAATTTATCCTC
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4301/6881
FIGURE 3967

GGTTCCCTTCCACGCTGTGGAAGCTTTGTTCTTTTGGTCTTCATGATAAATCTTGCTGCTGCTCACTCGTTGGGT
CCGTGCCACCTTTAAGAGCTGTAACACTCACCGCGAAGGTCTGCAACTTCACTCCTGGGGCCAGCAAGACCACGA
ATGCACCGAGAGGAATGAACAACTCTGGACACACCATCTTTAAGAACCGTAATACTCACCGCAAGGGTCTGCAAC
TTCATTCTTGAAGTCAGTGAGGCCAAGAACCCATCAATTCCGTACACATTTTGGTGACTTTGAAGAGACTGTCAC
CTATCACCAAGTGGTGAGACTATTGCCAAGCAGTGAGACTATTGCCAAGTGGTGAGACCATCACCAAGCGGTGAG
ACTATCACCTATCGCCAAGTGGCCTGATTCAGCAGGAAGCATCTCAGACACCAACCACTATGCTGTCAGCAGTTG
CCCGGGGCTACCAGGGCTGGTTTCATCCCTGTGCTAGGCTTTCTGTGAGGATGAGCAGCACCGGGATAGACAGGA
AGGGCGTCCTGGCTAACCGGGTAGCCGTGGTCACGGGGTCCACCAGTGGGATCGGCTTTGCCATCGCCCGACGTC
TGGCCCGGGACGGGGCCCACGTGGTCATCAGCAGCCGGAAGCAGCAGAACGTGGACCGGGCCATGGCCAAGCTGC
AGGGGGAGGGGCTGAGTGTGGCGGGCATTGTGTGCCACGTGGGGAAGGCTGAGGACCGGGAGCAGCTGGTGGCCA
AGGCCCTGGAGCACTGTGGGGGCGTCGACTTCCTGGTGTGCAGCGCAGGGGTCAACCCTCTGGTAGGGAGCACTC
TGGGGACCAGTGAGCAGATCTGGGACAAGATCCTAAGTGTGAACGTGAAGTCCCCAGCCCTGCTGCTGAGCCAGT
TGCTGCCCTACATGGAGAACAGGAGGGGTGCTGTCATCCTGGTCTCTTCCATTGCAGCTTATAATCCAGTAGTGG
CGCTGGGTGTCTACAATGTCAGCAAGACAGCGCTGCTGGGTCTCACTAGAACACTGGCATTGGAGCTGGCCCCCA
AGGACATCCGGGTAAACTGCGTGGTTCCAGGAATTATCAAAACTGACTTCAGCAAAGTGTTTCATGGGAATGAGT
CTCTCTGGAAGAACTTCAAGGAACATCATCAGCTGCAGAGGATTGGGGAGTCAGAGGACTGTGCAGGAATCGTGT
CCTTCCTGTGCTCTCCAGATGCCAGCTACGTCAACGGGGAGAACATTGCGGTGGCAGGCTACTCCACTCGGCTCT
GAGAGGAGTGGGGGCGGCTGCGTAGCTGTGGTCCCAGGCCCAGGAGCCTGAGGGGGTGTCTAGGTGATCATTTGG
ATCTGGAGGCAGAGTCTGCCATTCTGCCAGACTAGCAATTTGGGGGCTTACTCATGCTAGGCTTGAGGAAGAAGA
AAAACGCTTCGGCATTCTCC

4302/6881
FIGURE 3968

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TCTTGTGCCCGGGGCCGGTGGGGAGGCCGGGGAGGGGGCCCCGGGGGGCGCAGGGGACTACGGGAACGGCCTGGA
GTCTGAGGAACTGGAGCCTGAGGAGCTGCTGCTGGAGCCCGAGCCGGAGCCCGAGCCCGAAGAGGAGCCGCCCCG
GCCCCGCGCCCCCCCGGGAGCTCCGGGCCCTGGGCCTGGTTCGGGAGCCCCCGGCAGCCAAGAGGAGGAGGAGGA
GCCGGGACTGGTCGAGGGTGACCCGGGGGACGGCGCCATTGAGGACCCGGTGAGGGAAGGAGGGCGAGCGAGCAG
GCCGGCGGCTGGCCGGCCGGGTCACTGGAGGCCCAGAGCTCGGGCGAGCGGGTGGCAGGCGGGGGGTGGGGTTGG
GCGGGGAATAACGTGGCTGGGGCCGGGTCGGGCCGGGGATGGGTCAGCGATCACTACAAGGGGCCCGACTGGCTT
GATTCGGGCGTCACGGTTGCCTAGTGTTGTTCTAGAGAGGGTAGCTTTTCTTTTATCACGACCCTCGCATGGGGC
GAGGGAAATGGCCGAGCATGGCTGAGGCCGCGCTCTGGCCGAGAGCAGGGCACAGCCCCTGCGTTGGTTCCTCTT
AAGCTGTCCTCCATACCCTCCCCACTTATATTAGGAGCTGGAAGCTATCAAAGCTCGAGTCAGGGAGATGGAGGA
AGAAGCTGAGAAGCTAAAGGAGCTACAGAACGAGGTAGAGAAGCAGATGAATATGAGTCCACCTCCAGGCAATGC
TGGCCCGGTGATCATGTCCATTGAGGAGAAGATGGAGGCTGATGCCCGTTCCATCTATGTTGGCAATGTGGACTA
TGGTGCAACAGCAGAAGAGCTGGAAGCTCACTTTCATGGCTGTGGTTCAGTCAACCGTGTTACCATACTGTGTGA
CAAATTTAGTGGCCATCCCAAAGGGTTTGCGTATATAGAGTTCTCAGACAAAGAGTCAGTGAGGACTTCCTTGGC
CTTAGATGAGTCCCTATTTAGAGGAAGGCAAATCAAGGTGATCCCAAAACGAACCAACAGACCAGGCATCAGCAC
AACAGACCGGGGTTTTCCACGAGCCCGCTACCGCGCCCGGACCACCAACTACAACAGCTCCCGCTCTCGATTCTA
CAGTGGTTTTAACAGCAGGCCCCGGGGTCGCGTCTACAGGTCAGGATAGATGGGCTGCTCCTCTTTCCCCCGCCT
CCCGTG
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FIGURE 3969A

CACGCTCAGAGCAGACCGCTAGCAGGAGGCAGGATGTGATAGTCTAAGACCCTGGAAGCTGACGGCCAGAGGGAG
GGAAGGGTGGTCACAGAGGAGAGGCAAAGCAACGGGAGGTGGAGGATCCTGGAGGTGTCTGCAAGGAGAATACAC
AGCAGCGAGGGGCTGCAGAAGCGGACCCAGCGACTTCTGCGCTGACGCGGGGCGGGCGGGAGAGAGGAAGAGAGG
GGAGCGCGGTGGCGCTGCGAGCTGGCCCCGCCGGGGAAGGGGCTGCC**ATGT**CCCGTGAGCGGCCCCCGGGCACCG
ACATTCCCCGCAACCTGAGCTTCATCGCCGCGCTAACGGAGCGCGCCTACTACCGTAGCCAGCGGCCCAGCCTCG
AGGAGGAGCCGGAGGAGGAGCCAGGCGAGGGCGGGACGCGGTTCGGGGCCCGATCCCGCGCTCACGCACCGAGTC
GGGGCCGCCGGGCCCGATCTGCACCAGCCGGAGGCGGCGGGGCCCGGGCGCCCCGCAGCCGTAGCCCAGACACCC
GCAAGAGAGTGCGTTTCGCCGACGCACTGGGGTTGGAGCTGGCTGTCGTGCGCCGCTTCCGTCCCGGTGAGCTGC
CCCGGGTGCCCCGCCACGTGCAGATCCAATTGCAGAGGGACGCCCTCCGCCACTTCGCGCCCTGCCAGCCCCGCG
CCCGCGGCCTCCAGGAGGCGCGCGCCGCCCTGGAGCCGGCCAGCGAGCCCGGCTTCGCCGCCCGCTTGCTGACGC
AGCGCATCTGCCTGGAACGCGCCGAGGCGGGCCCGCTGGGCGTGGCCGGGAGCGCGCGCGTGGTGGACCTGGCCT
ACGAGAAGCGCGTGAGCGTGCGCTGGAGCGCCGACGGCTGGCGGAGCCAACGCGAGGCGCCAGCCGCCTACGCCG
GTCCGGCCCCGCCCCCGCCGCGCGCCGACCGCTTCGCCTTCCGCCTGCCCGCGCCGCCGATTGGGGGCGCCCTGC
TCTTCGCCTTGCGCTACCGTGTGACAGGTCACGAGTTCTGGGACAACAACGGCGGCCGTGACTATGCTCTACGTG
GGCCCGAGCACCCGGGCAGTGGCGGAGCTCCGGAGCCGCAGGGCTGGATCCACTTT**ATCTGA**GACGAGGCGCCTG
CGGCCGACGGCGGAAAACACCAAAGGCACCCGGGGGCGGGGCGACCCGATGTGGCGGGGAGGAGTAGGAGAGACC
AGGATTGGCGGGAGCGGTCCAAGGGAGTCAAGCCGGGGAGGGCGAAAAGGGAACCTGGCCACTGCTCCTTGGTCC
TTGGCATTATGACGGGATTCCCTTGTCACCTCTGACAGTTCCTGGCTGCGGTGTCCGCGGACTGGCTGGGGAGTG
ATGACAGAAGGGATGGAAACCCTATTTTCTTTTCTCCAAGACCATGGTTGGTCTGCTTCCCTCACTCGGGCTCCT
TGACAGTCTTCTAGAAGAGAGAAGGAGGAAAAGAAGCAGTTCCTGATGTTACAAATGAACAAGGATCTCCCAGCC
TTAGTCTTTGAGAAAAGATGGCTGAAAGAGAGGAACTCTCCAAGTCATTCCGCAAACAAATGCCCATTTAAACAT
CATCCTTGTCTTGTGAAGAAAACAGGAAGAATGTCATGTACCATGTGGATCACCTTCAGTTCAAAGTTGCAGCAA
AGTGAAGAAAGAAACTACTGGAAGCCACCCAGCAATGCACTGTTTAGTCATCAATTAGGAGCCCATGGGAGGATA
ATAGGGAGACTGGGTGGAGGCTCAGTGTGTAATAATCTCTTGTCTAATGTATGTGTGTCACTGCCATGTTGTATG
AACAATAGTGAGGGCTCACATTTACTTAACACTTGTGTGCGCAAATCTGGGTTTTTCTTCCTTTCCAGAACTATG
ACTCGATCATAAAATCTGTTTTGTTTGCATGCATGCCCAAAACAACCCTGTAAGTAGAACATTGTCATTATCTCT
GTTTTAGAGATGAGGAAACAGGCTCAGAGAAGCTCAGAAATTTGTTCAAGATCGCACAGCTAGTAAATGGCAGAA
GTAGGATTGTGAACCCAGGGAATCTCCAGAGCCTCTGTGTAACCATGATGTTATATTTTTTTTCCTCTTTAAAAA
CAAAATTTAAAACCTTGCTATAATCTCTTATTAGGAAATGATCATAGTTTCTGACTGTGCTCTGCCTTCCCATCC
TGCCAATCTCCTGGACTGGCTTGGAGAAGACAGGGGGCCCCCGAGCTTCATCTGTGACTCGAAGGAGTTTGCTGC
TGTCTCCTGTGTCAGTGTCCCATCTATGCAGGATCAGCACAGGACCCCCCTCACCTTCCCACTTACACTCTAGCC
TTTCCATACATTGGAATTCTCTCCTGGCCCTAGCCAGCGCTCCACACCTGTTGGTGTGCCACCTCCCTCCCTCTT
CCCCCACTGGCCTTGAACAGGCAAACCCCCTAATGTCGCCACTAGGTTGGGTCCGTGACTAGGACACCTGCTAGA
GGGTCTGTGCTTGGGCCTTTTCTAGGAATCCCGATGTTACTGGGTAAGTGCCAACTCTGTGGGCAGAATGCTAAT
GATAATCCTGTTCCCTGACCTCTTTCTCAGAAGTACCCTGGCTCACTCTCCCCAATCTCAGCTTTATAGAACAAC
ATTTTGGTCTTGATTATTCCCATATCAAGCTGCCCCAGGGCTTCGGTAAGCTGTTAGTTGCCCCACTGCCTCAAG
GCTGGGTCTGGCTGAGCTACTTCTTAGGCACACAAATAGTGGGTGTCTCCTTGGAACCTGACACAAAACTATCAG
TGCTACCAAGCCTTGTAAAATAGGGAGGAAACTAATATTTCTTGAGTGGCTTCTGAGTGCCTGGTGCTTTCGCGG
CTCTCTGGAGAGATTCCTTGCCCTGATGGCTTTGGTGTGTACTCCTCTCCCAGGACTTCAGCACTGAGATTTTCC
CAACCCCCTGGCTTTTCCTCACCTTGGGTTGAGTTGATCCGGCACTACCACAAACCCCACCATCTGCAAACCAAC
CAAGATTAGGCAGTATGCCCTTTCCGTCTTGCACTGCTCTTCCAAAACTTCCATCTGTATTTCTCACACCCTCAG
TAAGCAAAGCTGAGTGTGCATGGACAGAGCTGCATCCACTGCTTTCTCCCAGCGGGTGCAGTCTAATCTGACACG
GGGAACACTAGGAGTTTAGCGGAATCTTCAGCCACCCTATTAATGTGTTACGCATTAGGCATTGTAGTGGAAACT
CCTCTGATGGCTCATGACTATATGAACAGGAGCAATTTGGAATATAACATGTCAGCTGTGGACTGGGAAGTGCCG
TGAGAGAAAACACTACCTGGGTCATAGGCTTGGGTCCCTGAGGCAACCCAGCAGGGACACTGTTGCCCATTCCTC
TCATCCAGACTGCAGGTGTCTTCCTACACCTCCCTGTCCCATAGCCTCCGTCCTGTTTTTTGTTTGTTTGTTTTT
CTTTGTGAATGTAGAAAAACATTTCATCATGAGCCCTAGCTCCTCAGTTTTCCACCTAACACCCACATTCCCTTG
TTTCTAACTGCCGTGTTTTTCTGGAGCCTGCTGGGATCTTTGCAGTTTGCAGGTCATAGAATCAGACATGAAAAG

4304/6881
FIGURE 3969B

GCTTCTCTTCCGACGTCATTGGTTCCTGGCTCCTTTACAGATGAGAACACAGGTCCAGAGGTGAGAAATGACTCT
AGCAGGGTCATAGAATTTGTTAGTGCAGCTCAAGATGGGACTTAAACTCAGGCCTCCTGATCACCCATTCCCAGG
CTAGGAAACAGGTCTCTGCTCGGTGTGGTGGTTCATACCTGTAATCGCAACACTTTGGGAGGCTGAGGCAGGAGC
ATTGCTTGAGCCCAGGAGTTCGAGACCAGTCTGAGCAACATAGTGGGACCCTGTCTCTACAAAAACTTTTAAAAT
TAGCTGGGCATGGTGGCACACATCTGTATTCCCAGCTACTCAGGAAGCTGAGACAGGAGGATCGCTTGAGCCCAG
GAGTTGGAGGTTACTGAGCTATGATCGCACCACTGCACTCCAGCTTGGTGACAGTGAGACCCTCAAAAAAAAAAA
GAAAAGAAAGAGGTCTCTACACAAGCCCGTGATTCTTCATGGCAAGGGATAACATCAGAAATGTTTCATTTTCTG
CTATTAGTTTCCATTCCTTTCCCCATCCAGGCATAAAGAGAAACAAAAGACAATGATGGTATTCTCTGTGTCCTC
AGCTTTGGCACTTTTGTTGATGTTGCTAAGGAGCAGTGACCTTGCTAAAAAGACTGAATAATCCACCCACTGAAT
AGCTAACCTGGGGAGGAAATGAAAATTTCCTTTGTGGATCTCCCCAAATCCATTGTTGTCACCAGGCCCTCCCAG
AACCTCCTCAGTTCCTTCACAGTGCAACCCTGTGTACTTGGCCCGCAACCCAATAGTATTGTGCCTCACTTCACC
TTCCATGGGCAACTGCCCTCCCTTCTGGACATAAAACCTCATATTTTAAATAAAGTTGAAATATGAAAAG

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FIGURE 3970

MSRERPPGTDIPRNLSFIAALTERAYYRSQRPSLEEEPEEEPGEGGTRFGARSRAHAPSRGRRARSAPAGGGGAR
APRSRSPDTRKRVRFADALGLELAVVRRFRPGELPRVPRHVQIQLQRDALRHFAPCQPRARGLQEARAALEPASE
PGFAARLLTQRICLERAEAGPLGVAGSARVVDLAYEKRVSVRWSADGWRSQREAPAAYAGPAPPPPRADRFAFRL
PAPPIGGALLFALRYRVTGHEFWDNNGGRDYALRGPEHPGSGGAPEPQGWIHFI

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FIGURE 3971

GGCTCCTTCCCCTTCCCGGGCCTTTCAGCTTGGTCTTTCCGGGCCTCGCTTCCCCCAGCCCCTGCGCCCGGCCCG
AACGAGAGGTTCCGGAGCCCCGGCGCGGGCGGGTTCTGGGGTGTAGACGCTGCTGGCCAGCCCTCCCCAGCCGAG
GTTCTCGGCACCGCCTTGAGAGCTTCAGCTGCCCCAGGATTAGAATCCCAAGAAAATCAA**ATG**GCATCCGGGGAT
TTCTGCTCACCTGGAGAAGGGATGGAAATACTTCAACAAGTGTGCAGCAAACAACTTCCTCCTTGTAACCTGAGT
AAAGAGGACCTGTTACAGAACCCATACTTCAGCAAGCTTCTCCTGAATCTCTCACAGCATGTGGATGAGAGTGGC
TTAAGCCTCACCCTAGCAAAGGAGCAGGCTCAGGCATGGAAGGAAGTTCGACTGCATAAGACAACATGGTTGAGG
TCTGAGATTTTACACAGAGTCATTCAAGAGTTGCTTGTGGACTACTATGTGAAGATACAAGACACAAATGTAACT
TCTGAGGACAAAAAGTTTCATGAGACCCTTGAACAGCGGCTGCTTGTAACTGAACTGATGCGGCTCTTAGGTCCT
AGCCAGGAGAGGGAGATACCTCCACTGCTGGGGCTGGAGAAAGCGGACCTTCTGGAACTCATGCCACTCACAGAG
GATTTTGTGTGGATGAGGGCTCGGCTACAGCAAGAAGTAGAGGAGCAGCTCAAAAAGAAATGTTTCACTCTGCTC
TGCTACTATGATCCCAATTCAGATGCTGACAGTGAAACCGTGAAGGCAGCAAAGGTGTGGAAACTCGCAGAGGTC
CTGGTGGGTGAGCAGCAGCAGTGCCAGGATGCCAAGAGCCAGCAGAAGGAGCAGATGTTGCTGCTGGAGAAGAAG
AGTGCTGCTTACTCCCAGGTGCTTCTCCGCTGCCTCACTTTGCTGCAGAGGCTTCTTCAAGAACACCGGCTGAAG
ACTCAATCCGAGCTAGACCGCATCAATGCCCAGTACCTGGAAGTCAAGTGCGGTGCTATGATCCTTAAGCTGAGG
ATGGAGGAGCTAAAGATTTTGTCCGACACTTACACTGTTGAGAAAGTGGAAGTTCATCGTCTGATTAGGGACCGT
TTGGAGGGAGCCATTCACCTACAGGAGCAGGACATGGAGAACTCAAGACAGGTCCTGAACTCCTATGAGGTCCTT
GGGGAGGAGTTTGACAGGCTGGTGAAAGAGTACACCGTACTCAAGCAGGCAACAGAGAACAAGCGGTGGGCCCTC
CAGGAGTTCAGCAAGGTCTACCGT**TGA**GCTCTGGCAGGGCCAGGAGACATGGCTTCTGCATAGCTGCTGCCTCCT
AATCTTCCTGCTAGTGGGACCACCTTCACCTGGGGCTGCCTTCAGTGCAAGGGAGTGTGGAAATGCTTACGCTTG
AAACACTGCAGTCATTTAGGCACTCTCCTGGTTTCTCTTTATTTTTTATGACTGGGCCTCTTCTGGAAAATCTAG
CAAGGAGATTTATATAATTTTTATGCATAGCTGTGTGTCAGTGTCAGCCCTGTATTGTATTTGATTATCTCCTGA
ATAAAGTTATGATATTATATCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3972

MASGDFCSPGEGMEILQQVCSKQLPPCNLSKEDLLQNPYFSKLLLNLSQHVDESGLSLTLAKEQAQAWKEVRLHK
TTWLRSEILHRVIQELLVDYYVKIQDTNVTSEDKKFHETLEQRLLVTELMRLLGPSQEREIPPLLGLEKADLLEL
MPLTEDFVWMRARLQQEVEEQLKKKCFTLLCYYDPNSDADSETVKAAKVWKLAEVLVGEQQQCQDAKSQQKEQML
LLEKKSAAYSQVLLRCLTLLQRLLQEHRLKTQSELDRINAQYLEVKCGAMILKLRMEELKILSDTYTVEKVEVHR
LIRDRLEGAIHLQEQDMENSRQVLNSYEVLGEEFDRLVKEYTVLKQATENKRWALQEFSKVYR

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FIGURE 3973

GCGACTCGTCCCGCCTTCTGGGGCACTAGTTTGACTTTGTGATTGGCTACTAGTATCAAGGAATCCCGGCGTGGA
CAGCGCGAGGAGAAAGATGGCGGCGATGGCGGTCGGGGGTGCTGGTGGGAGCCGCGTGTCCAGCGGGAGGGACCT
GAATTGCGTCCCCGAAATAGCTGACACACTAGGGGCTGTGGCCAAGCAGGGGTTTGATTTCCTCTGCATGCCTGT
CTTCCATCCGCGTTTCAAGAGGGAGTTCATTCAGGAACCTGCTAAGAATCGGCCCGGTCCCCAGACACGATCAGA
CCTACTGCTGTCAGGAAGGGACTGGAATACGCTAATTGTGGGAAAGCTTTCTCCATGGATTCGTCCAGACTCAAA
AGTGGAGAAGATTCGCAGGAACTCCGAGGCGGCCATGTTACAGGAGCTGAATTTTGGTGCATATTTGGGTCTTCC
AGCTTTCCTGCTGCCCCTTAATCAGGAAGATAACACCAACCTGGCCAGAGTTTTGACCAACCACATCCACACTGG
CCATCACTCTTCCATGTTCTGGATGCGGGTACCCTTGGTGGCACCAGAGGACCTGAGAGATGATATAATTGAGAA
TGCACCAACTACACACACAGAGGAGTACAGTGGGGAGGAGAAAACGTGGATGTGGTGGCACAACTTCCGGACTTT
GTGTGACTATAGTAAGAGGATTGCAGTGGCTCTTGAAATTGGGGCTGACCTCCCATCTAATCATGTCATTGATCG
CTGGCTTGGGGAGCCCATCAAAGCAGCCATTCTCCCCACTAGCATTTTCCTGACCAATAAGAAGGGATTTCCTGT
TCTTTCTAAGATGCACCAGAGGCTCATCTTCCGGCTCCTCAAGTTGGAGGTGCAGTTCATCATCACAGGCACCAA
CCACCACTCAGAGAAGGAGTTCTGCTCCTACCTCCAATACCTGGAATACTTAAGCCAGAACCGTCCTCCACCTAA
TGCCTATGAACTCTTTGCCAAGGGCTATGAAGACTATCTGCAGTCCCCGCTTCAGCCACTGATGGACAATCTGGA
ATCTCAGACATATGAAGTGTTTGAAAAGGACCCCATCAAATACTCTCAGTACCAGCAGGCCATCTATAAATGTCT
GCTAGACCGAGTACCAGAAGAGGAGAAGGATACCAATGTCCAGGTACTGATGGTGCTGGGAGCAGGACGGGGACC
CCTGGTGAACGCTTCCCTGCGGGCAGCCAAGCAGGCCGACCGGCGGATAAAGCTGTATGCTGTGGAGAAAAACCC
AAATGCCGTGGTGACGCTAGAGAACTGGCAGTTTGAAGAATGGGGAAGCCAAGTGACCGTAGTCTCATCAGACAT
GAGGGAATGGGTGGCTCCAGAGAAAGCAGACATCATTGTCAGTGAGCTTCTGGGCTCATTTGCTGACAATGAATT
GTCGCCTGAGTGCCTGGATGGAGCCCAGCACTTCCTAAAAGATGATGGTGTGAGCATCCCCGGGGAGTACACTTC
CTTTCTGGCTCCCATCTCTTCCTCCAAGCTGTACAATGAGGTCCGAGCCTGTAGGAGAAGGACCGTGACCCTGA
GGCCCAGTTTGAGATGCCTTATGTGGTACGGCTGCACAACTTCCACCAGCTCTCTGCACCCCAGCCCTGTTTCAC
CTTCAGCCATCCCAACAGAGATCCTATGATTGACAACAACCGCTATTGCACCTTGGAATTTCCTGTGGAGGTGAA
CACAGTACTACATGGCTTTGCCGGCTACTTTGAGACTGTGCTTTATCAGGACATCACTCTGAGTATCCGTCCAGA
GACTCACTCTCCTGGGATGTTCTCATGGTTTCCCATCCTCTTCCCTATTAAGCAGCCCATAACGGTACGTGAAGG
CCAAACCATCGTGTGTGCGTTTCTGGCGATGCAGCAATTCCAAGAAGGTGTGGTATGAGTGGGCTGTGACAGCACC
AGTCTGTTCTGCTATTCATAACCCCACAGGCCGCTCATATACCATTGGCCTCTAGCCCTGCGTGCCAAGTGTCCA
GAGCCTTGGAAGCAGCTTCAGGTTCCTGCTCCTGTAGTACAGAAGGTGCAGTACATCTATGGGCTGTGATTCCCC
CTTGCCCATCAGAGAGGAGCATTTCAATCTGCTTTCCTGCCTTACATCAAGGTGGGCAAGGGATTATAATTAATT
GCAGGGCTCAAGCCACCAATCTATGAAGACCTCAGGCCAGGGGGTGAGGAATTAGTGCTGGATTTGAAGCTACGC
ACTCAGCCTCAAGAACTCCCTGGAATATCCCTGAGAACATGGGGTTTGAACGGATTTTCAGCCTTTTTCTGTTCT
TGTTTTGATGGTTTTGTGTAAGAGGAAATACCAATAAAGTTATAGCCCTTTACTGCCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 3974

MAAMAVGGAGGSRVSSGRDLNCVPEIADTLGAVAKQGFDFLCMPVFHPRFKREFIQEPAKNRPGPQTRSDLLLSG
RDWNTLIVGKLSPWIRPDSKVEKIRRNSEAAMLQELNFGAYLGLPAFLLPLNQEDNTNLARVLTNHIHTGHHSSM
FWMRVPLVAPEDLRDDIIENAPTTHTEEYSGEEKTWMWWHNFRTLCDYSKRIAVALEIGADLPSNHVIDRWLGEP
IKAAILPTSIFLTNKKGFPVLSKMHQRLIFRLLKLEVQFIITGTNHHSEKEFCSYLQYLEYLSQNRPPPNAYELF
AKGYEDYLQSPLQPLMDNLESQTYEVFEKDPIKYSQYQQAIYKCLLDRVPEEEKDTNVQVLMVLGAGRGPLVNAS
LRAAKQADRRIKLYAVEKNPNAVVTLENWQFEEWGSQVTVVSSDMREWVAPEKADIIVSELLGSFADNELSPECL
DGAQHFLKDDGVSIPGEYTSFLAPISSSKLYNEVRACREKDRDPEAQFEMPYVVRLHNFHQLSAPQPCFTFSHPN
RDPMIDNNRYCTLEFPVEVNTVLHGFAGYFETVLYQDITLSIRPETHSPGMFSWFPILFPIKQPITVREGQTICV
RFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL

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FIGURE 3975

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GGTTCTGGAAGACGGCAGAGCTGCCGCCATTTTGCGGGAAGAGGAGGCTCTGTACCTGCAGTGCTGCTTTTCTTG
CCTAGACTCTAGGAACTATCCGAGCTCCACTCCCCACAACATACTCAAAGGAACGGAGAGAACCGGGACCCCCCT
GCGGGGACCCGGAACTGATCTGACAGGATGGCATCTGATGACTTTGACATAGTGATTGAGGCCATGCTGGAAGCT
CCCTATAAAAAAGAAGAGGATGAGCAACAAAGGAAAGAAGTTAAAAAGGATTATCCTAGCAATACCACCAGCAGC
ACCAGCAACAGTGGCAATGAGACCAGTGGAAGCAGCACCATCGGGGAGACAAGCAATCGTAGTCGAGATCGGGAT
CGGTATAGACGGAGAAATAGTCGGAGCCGAAGTCCAGGTCGGCAGTGTCGTCACCGTAGCCGTAGCTGGGATCGT
CGACATGGTAGTGAGTCGCGAAGTCGGGACCATCGTCGTGAGGATCGTGTGCATTACAGGAGTCCTCCACTTGCC
ACTGGTTATAGGTATGGACACAGTAAGAGTCCTCATTTCAGAGAGAAGAGCCCAGTCAGGGAGCCAGTTGATAAT
CTGAGTCCTGAGGAGCGTGATGCCCGCACAGTTTTCTGTATGCAGTTAGCTGCCCGAATTCGGCCTCGAGATCTG
GAGGACTTTTTCTCTGCTGTAGGCAAGGTTCGCGATGTACGTATCATCTCAGATCGGAACTCACGTCGTTCTAAG
GGCATTGCCTACGTGGAATTCTGTGAAATCCAGTCTGTGCCACTGGCCATTGGGCTGACTGGGCAGCGGTTGCTG
GGAGTGCCTATCATTGTACAGGCTTCACAGGCAGAGAAAAACCGACTGGCAGCCATGGCCAACAACCTGCAAAAG
GGCAATGGTGGACCAATGCGCCTCTATGTGGGTTCCCTGCACTTCAATATCACTGAAGACATGCTCCGGGGCATC
TTTGAGCCCTTTGGTAAAATTGATAATATTGTCCTGATGAAGGACTCAGATACAGGCCGCTCTAAAGGTTATGGT
TTCATCACGTTCTCTGATTCTGAGTGTGCCCGGCGGGCCCTGGAACAGTTGAATGGGTTTGAGCTTGCTGGTCGA
CCTATGAGGGTTGGCCATGTGACTGAGCGACTGGATGGTGGCACAGACATCACTTTTCCTGATGGGGACCAGGAG
CTGGATCTGGGATCAGCAGGTGGACGTTTTCAGCTCATGGCAAAACTGGCAGAAGGCGCTGGAATCCAACTGCCA
AGCACTGCTGCTGCTGCTGCTGCCGCCGCCGCCCAGGCTGCTGCCTTGCAACTGAATGGAGCAGTTCCCTTGGGG
GCCCTGAATCCAGCAGCTCTGACTGCTCTGAGTCCAGCCCTGAACCTTGCCTCCCAGTGTTTCCAGCTCTCCAGC
CTCTTTACCCCCCAGACCATGTAAATCAGTGGCACAGTATACTGCCTCCTTGTGCCTCTGGATCCTGCCACTTCA
CATCTACTCTTCCATGGCCCCATTTCTCCATTTTGTGGACCAAGCCATCCTGAGGGCATGGACATTGTCTCTGAG
GAAATTGGGGCCACCCTTAAGATACCAAGAAAAGCTCCTGCCCATGGTCCCACTGGAAATGGACTCTGCTGAGCA
AAGCCACCAGTTGAAGAGAACAGAATCCACACCTGCATTGAATACCTGTTTCTCCATGTGTATCGTCTCTGAGAT
TACCTTCTTGCCCTTTCCAACACCTTAGTGATTCCTCAATTTCTCCCCCATTGGGAAGGCCATAGGGCATACTGA
AGGAACTGACCTCTCTCCTTTTCCTGTACCTTTAACCTTTAGTCTGTCAAGGAAAACCCTTAGGACCTCTGAATC
AAGAGGACTGAGTTTGTGGGTGAACCTTGAAGGTGCTCTTTCTGCTACAAGGGCCCTGGGAGATAGCATGGACGT
GCATTGAGAAGCCAGCCTCAGACCTTAGCTTGAAGCAGCTTGAGGCCAGACCTACTGTAGCCTCAGCATCTTGCT
AGGAGGCATGGAAGTGATCTATCCTGCCAGGAGGCCTCAGAGTGATCTGTCCTGCCAGGAGGTGTGAGAGTGATC
TGTCCTGTGAGGCATTTAGGGGCTTTCAGGAATTTAGTAAAAGGTGGAGTATGCCTTTCCAGTATCTTCCATCTT
CCTTTGTATACTTGTCCTTCCTCCCATTTCCTCCCTTTGGCCCGAGGTAGGAGGATGGAGGGAGGCTGCTACTCT
ACCACTTCCTGTGTGCCTCTACTGTGGCCTCAACCCTGGCAATTATAGCTACTCCCATCCCTTACCTGGGCATGT
GTGAGCCCTTCTCACTGGATTTTATACCCTTGTGTCTGTGTACATAAATATATATACATATATATACATAAAA
ACTTTGTAC
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FIGURE 3976

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CAGACCCCAGTTCGCCGACTAAGCAGAAGAAAGATCAAAAACCGGAAAAGAGGAGAAGAGCAAACAGGCACTTTG
AGGAACAATCCCCTTTAACTCCAAGCCGACAGCGGTCTAGGAATTCAAGTTCAGTGCCTACCGAAGACAAAGGCG
CCCCGAGGGAGTGGCGGTGCGACCCCAGGGCGTGGGCCCGGCCGCGGAGCCCACACTGCCCGGCTGACCCGGTGG
TCTCGGACCATGTCTCCCGCCCCAAGACCCCCCCGTTGTCTCCTGCTCCCCCTGCTCACGCTCGGCACCGCGCTC
GCCTCCCTCGGCTCGGCCCAAAGCAGCAGCTTCAGCCCCGAAGCCTGGCTACAGCAATATGGCTACCTGCCTCCC
GGGGACCTACGTACCCACACACAGCGCTCACCCCAGTCACTCTCAGCGGCCATCGCTGCCATGCAGAAGTTTTAC
GGCTTGCAAGTAACAGGCAAAGCTGATGCAGACACCATGAAGGCCATGAGGCGCCCCCGATGTGGTGTTCCAGAC
AAGTTTGGGGCTGAGATCAAGGCCAATGTTCGAAGGAAGCGCTACGCCATCCAGGGTCTCAAATGGCAACATAAT
GAAATCACTTTCTGCATCCAGAATTACACCCCCAAGGTGGGCGAGTATGCCACATACGAGGCCATTCGCAAGGCG
TTCCGCGTGTGGGAGAGTGCCACACCACTGCGCTTCCGCGAGGTGCCCTATGCCTACATCCGTGAGGGCCATGAG
AAGCAGGCCGACATCATGATCTTCTTTGCCGAGGGCTTCCATGGCGACAGCACGCCCTTCGATGGTGAGGGCGGC
TTCCTGGCCCATGCCTACTTCCCAGGCCCCAACATTGGAGGAGACACCCACTTTGACTCTGCCGAGCCTTGGACT
GTCAGGAATGAGGATCTGAATGGAAATGACATCTTCCTGGTGGCTGTGCACGAGCTGGGCCATGCCCTGGGGCTC
GAGCATTCCAGTGACCCCTCGGCCATCATGGCACCCTTTTACCAGTGGATGGACACGGAGAATTTTGTGCTGCCC
GATGATGACCGCCGGGGCATCCAGCAACTTTATGGGGGTGAGTCAGGGTTCCCCACCAAGATGCCCCCTCAACCC
AGGACTACCTCCCGGCCTTCTGTTCCTGATAAACCCAAAAACCCCACCTATGGGCCCAACATCTGTGACGGGAAC
TTTGACACCGTGGCCATGCTCCGAGGGGAGATGTTTGTCTTCAAGGAGCGCTGGTTCTGGCGGGTGAGGAATAAC
CAAGTGATGGATGGATACCCAATGCCCATTGGCCAGTTCTGGCGGGGGCCTGCCTGCGTCCATCAACACTGCCTAC
GAGAGGAAGGATGGCAAATTCGTCTTCTTCAAAGGAGACAAGCATTGGGTGTTTGATGAGGCGTCCCTGGAACCT
GGCTACCCCAAGCACATTAAGGAGCTGGGCCGAGGGCTGCCTACCGACAAGATTGATGCTGCTCTCTTCTGGATG
CCCAATGGAAAGACCTACTTCTTCCGTGGAAACAAGTACTACCGTTTCAACGAAGAGCTCAGGGCAGTGGATAGC
GAGTACCCCAAGAACATCAAAGTCTGGGAAGGGATCCCTGAGTCTCCCAGAGGGTCATTCATGGGCAGCGATGAA
GTCTTCACTTACTTCTACAAGGGGAACAAATACTGGAAATTCAACAACCAGAAGCTGAAGGTAGAACCGGGCTAC
CCCAAGTCAGCCCTGAGGGACTGGATGGGCTGCCCATCGGGAGGCCGGCCGGATGAGGGGACTGAGGAGGAGACG
GAGGTGATCATCATTGAGGTGGACGAGGAGGGCGGCGGGGCGGTGAGCGCGGCTGCCGTGGTGCTGCCCGTGCTG
CTGCTGCTCCTGGTGCTGGCGGTGGGCCTTGCAGTCTTCTTCTTCAGACGCCATGGGACCCCCAGGCGACTGCTC
TACTGCCAGCGTTCCCCTGCTGGACAAGGTCTGACGCCCACCGCCGGCCCGCCCACTCCTACCACAAGGACTTTGC
CTCTGAAGGCCAGTGGCAGCAGGTGGTGGTGGGTGGGCTGCTCCCATCGTCCCGAGCCCCCTCCCCGCAGCCTCC
TTGCTTCTCTCTGTCCCCTGGCTGGCCTCCTTCACCCTGACCGCCTCCCTCCCTCCTGCCCCGGCATTGCATCTT
CCCTAGATAGGTCCCCTGAGGGCTGAGTGGGAGGGCGGCCCTTTCCAGCCTCTGCCCCTCAGGGGAACCCTGTAG
CTTTGTGTCTGTCCAGCCCCATCTGAATGTGTTGGGGGCTCTGCACTTGAAGGCAGGACCCTCAGACCTCGCTGG
TAAAGGTCAAATGGGGTCATCTGCTCCTTTTCCATCCCCTGACATACCTTAACCTCTGAACTCTGACCTCAGGAG
GCTCTGGGCACTCCAGCCCTGAAAGCCCCAGGTGTACCCAATTGGCAGCCTCTCACTACTCTTTCTGGCTAAAAG
GAATCTAATCTTGTTGAGGGTAGAGACCCTGAGACAGTGTGAGGGGGTGGGGACTGCCAAGCCACCCTAAGACCT
TGGGAGGAAAACTCAGAGAGGGTCTTCGTTGCTCAGTCAGTCAAGTTCCTCGGAGATCTGCCTCTGCCTCACCTA
CCCCAGGGAACTTCCAAGGAAGGAGCCTGAGCCACTGGGGACTAAGTGGGCAGAAGAAACCCTTGGCAGCCCTGT
GCCTCTCGAATGTTAGCCTTGGATGGGGCTTTCACAGTTAGAAGAGCTGAAACCAGGGGTGCAGCTGTCAGGTAG
GGTGGGGCCGGTGGGAGAGGCCCGGGTCAGAGCCCTGGGGGTGAGCCTGAAGGCCACAGAGAAAGAACCTTGCCC
AAACTCAGGCAGCTGGGGCTGAGGCCCAAAGGCAGAACAGCCAGAGGGGGCAGGAGGGGACCAAAAAGGAAAATG
AGGACGTGCAGCAGCATTGGAAGGCTGGGGCCGGGCAGGCCAGGCCAAGCCAAGCAGGGGGCCACAGGGTGGGCT
GTGGAGCTCTCAGGAAGGGCCCTGAGGAAGGCACACTTGCTCCTGTTGGTCCCTGTCCTTGCTGCCCAGGCAGCG
TGGAGGGGAAGGGTAGGGCAGCCAGAGAAAGGAGCAGAGAAGGCACACAAACGAGGAATGAGGGGCTTCACGAGA
GGCCACAGGGCCTGGCTGGCCACGCTGTCCCGGCCTGCTCACCATCTCAGTGAGGGGCAGGAGCTGGGGCTCGCT
TAGGCTGGGTCCACGCTTCCCTGGTGCCAGCACCCCTCAAGCCTGTCTCACCAGTGGCCTGCCCTCTCGCTCCCC
CACCCAGCCCACCCATTGAAGTCTCCTTGGGCCACCAAAGGTGGTGGCCATGGTACCGGGGACTTGGGAGAGTGA
GACCCAGTGGAGGGAGCAAGAGGAGAGGGATGTCGGGGGGGTGGGGCACGGGTAGGGGAAATGGGGTGAACGGT
GCTGGCAGTTCGGCTAGATTTCTGTCTTGTTTGTTTTTTTGTTTTGTTTAATGTATATTTTTATTATAATTATTA
TATATGAATTCCAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 3977

MSPAPRPPRCLLLPLLTLGTALASLGSAQSSSFSPEAWLQQYGYLPPGDLRTHTQRSPQSLSAAIAAMQKFYGLQ
VTGKADADTMKAMRRPRCGVPDKFGAEIKANVRRKRYAIQGLKWQHNEITFCIQNYTPKVGEYATYEAIRKAFRV
WESATPLRFREVPYAYIREGHEKQADIMIFFAEGFHGDSTPFDGEGGFLAHAYFPGPNIGGDTHFDSAEPWTVRN
EDLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFYQWMDTENFVLPDDDRRGIQQLYGGESGFPTKMPPQPRTT
SRPSVPDKPKNPTYGPNICDGNFDTVAMLRGEMFVFKERWFWRVRNNQVMDGYPMPIGQFWRGLPASINTAYERK
DGKFVFFKGDKHWVFDEASLEPGYPKHIKELGRGLPTDKIDAALFWMPNGKTYFFRGNKYYRFNEELRAVDSEYP
KNIKVWEGIPESPRGSFMGSDEVFTYFYKGNKYWKFNNQKLKVEPGYPKSALRDWMGCPSGGRPDEGTEEETEVI
IIEVDEEGGGAVSAAAVVLPVLLLLLVLAVGLAVFFFRRHGTPRRLLYCQRSLLDKV

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FIGURE 3978

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TCCTGCTCAGCATGGCTGCTTTAGGGACTGTTCTCTTCACAGGTGTCCGGAGGCTGCACTGCAGCGTAGCCGCTT
GGGCGGGCGGCCAGTGGCGACTACAGCAGGGACTGGCTGCCAACCCCTCCGGCTACGGGCCCCTTACCGAGCTCC
CAGACTGGTCATATGCGGATGGCCGCCCTGCTCCCCCAATGAAAGGCCAGCTTCGAAGAAAAGCTGAAAGGGAGA
CGTTTGCAAGACGAGTTGTACTGCTGTCACAGGAAATGGACGCTGGATTACAAGCATGGCAGCTCAGGCAGCAGA
AGTTGCAGGAAGAACAAAGGAAGCAGGAAAATGCTCTTAAACCCAAAGGGGCTTCACTGAAGAGCCCACTTCCAA
GTCAATAAAAAGCAACTCCTGCCTCCCTTCCTCACCCTGTCTCTGGATTTCTTTTCTATCACCTAGATGCTTCAT
CCAGCCAGAAGATAGCCTTCACGTTCCCCATCTGTCTTCAGAGAAAAAGAGCTGGGACACCAAGAACAAGCTGTT
AGATCACTGCCTGGGAGGCTTGGCTTAGTACTCTCATCTCTGGTTCCATTCCAGTTCAGCTAAGTCTTGCTTTAA
AATTTTTACCTCCTAGCTGGGTGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGAT
CACAAGATCAGGAGTTCGAGACCAGCCTGGCCAACCCAGCCTGGTCAACATGGTGAAACCCTGTCCCTACTAAAG
ATACAAACAATTAGCCGGGCGTGGTGGGGTGCGCTTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCG
CTTAAACTCGGGAGGTAGAGGTTGCAGTGAGCCAAGGTCACACCATTGCACTCCAACCTGGGCGACAGGGCGAGA
CTCCGTCTCAAAAAAAAAAAAAAAATTTACCTCCTTTGCAGGCCATAGGACTAGCCCAACTATGAGAAATAGCTGT
TCTGTGAACGTGAAAAGGGGACAGCAGTTTTCCCAGTTTTGGCCAGGCAGTCAAGCCTTTAACAGCTCATGCACA
GTTTAGGCCATGTACAGCTGGCATCTAATAAATGTTTTCATGAAAAAGA
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FIGURE 3979

MAALGTVLFTGVRRLHCSVAAWAGGQWRLQQGLAANPSGYGPLTELPDWSYADGRPAPPMKGQLRRKAERETFAR
RVVLLSQEMDAGLQAWQLRQQKLQEEQRKQENALKPKGASLKSPLPSQ

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FIGURE 3980

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AGCTGTTGCAGCATGAGCGATACGCTTGGTTCTCCTAACTAGCACCTTCCCCTCTCCCCTGACTCAGCTGGTAGC
CCCTCCTCCCCGCACCTGCCCAAAGGTCACTGGACAGGCATTTGTCTGGCCTTCCCTTTTACTGCTGGCTGGGAA
GGAGGAGCATCAGACCACAGATCCTGGAAGGCACTTCTCTCCCTGACTGCTGCTCACACTGCCGTGAGAACCTGC
TTATATCCAGGACCAAGGAGGCAATGCCAGGAAGCTGGTGAAGGGTTTCCTCTCCTCCACCATGGTTGACAGCAC
TGAGTATGAAGTGGCCTCCCAGCCTGAGGTGGAAACCTCCCCTTTGGGTGATGGGGCCAGCCCAGGGCCGGAGCA
GGTGAAGCTGAAGAAGGAGATCTCACTGCTTAACGGCGTGTGCCTGATTGTGGGGAACATGATCGGCTCGGGCAT
CTTTGTTTCCCCCAAGGGTGTGCTCATATACAGTGCCTCCTTTGGTCTCTCTCTGGTCATCTGGGCTGTCGGGGG
CCTCTTCTCCGTCTTTGGGGCCCTTTGTTATGCGGAACTGGGCACCACCATTAAGAAATCTGGGGCCAGCTATGC
CTATATCCTGGAGGCCTTTGGAGGATTCCTTGCTTTCATCAGACTCTGGACCTCCCTGCTCATCATTGAGCCCAC
CAGCCAGGCCATCATTGCCATCACCTTTGCCAACTACATGGTACAGCCTCTCTTCCCGAGCTGCTTCGCCCCTTA
TGCTGCCAGCCGCCTGCTGGCTGCTGCCTGCATTGTCTCTTAACCTTCATTAACTGTGCCTATGTCAAATGGGG
AACCCTGGTACAAGATATTTTCACCTATGCTAAAGTATTGGCACTGATCGCGGTCATCGTTGCAGGCATTGTTAG
ACTTGGCCAGGGAGCCTCTACTCATTTTGAGAATTCCTTTGAGGGTTCATCATTTGCAGTGGGTGACATTGCCCT
GGCACTGTACTCAGCTCTGTTCTCCTACTCAGGCTGGGACACCCTCAACTATGTCACTGAAGAGATCAAGAATCC
TGAGAGGAACCTGCCCCTCTCCATTGGCATCTCCATGCCCATTGTCACCATCATCTATATCTTGACCAATGTGGC
CTATTATACTGTGCTAGACATGAGAGACATCTTGGCCAGTGATGCTGTTGCTGTGACTTTTGCAGATCAGATATT
TGGAATATTTAACTGGATAATTCCACTGTCAGTTGCATTATCCTGTTTTGGTGGCCTCAATGCCTCCATTGTGGC
TGCTTCTAGGCTTTTCTTTGTGGGCTCAAGAGAAGGCCATCTCCCTGATGCCATCTGCATGATCCATGTTGAGCG
GTTCACACCAGTGCCTTCTCTGCTCTTCAATGGTATCATGGCATTGATCTACTTGTGCGTGGAAGACATCTTCCA
GCTCATTAACTACTACAGCTTCAGCTACTGGTTCTTTGTGGGGCTTTCTATTGTGGGTCAGCTTTATCTGCGCTG
GAAGGAGCCTGATCGACCTCGTCCCCTCAAGCTCAGCGTTTCTTCCCGATTGTCTTCTGCCTCTGCACCATCTT
CCTGGTGGCTGTTCCACTTTACAGTGATACTATCAACTCCCTCATCGGCATTGCCATTGCCCTCTCAGGCCTGCC
CTTTTACTTCCTCATCATCAGAGTGCCAGAACATAAGCGACCGCTTTACCTCCGAAGGATCGTGGGGTCTGCCAC
AAGGTACCTCCAGGTCCTGTGTATGTCAGTTGCTGCAGAAATGGATTTGGAAGATGGAGGAGAGATGCCCAAGCA
ACGGGATCCCAAATCTAACTAAACACCATCTGGAATCCTGATGTGGAAAGCAGGGGTTTCTGGTCTACTGGCTAG
AGCTAAGGAAGTTGAAAAGGAAAGCTCACTTCTTTGGAGGCACCTGTCCAGAAGCCTGGCCTAGGCAGCTTCAAC
CTTTGAACTTACTTTTTGAAATGAAAAGTAATTTATTTGTTTTGCTACATACTGTTCCAGACTTTTAAAGGGGAC
AATGAAGGTGACTGTGGGGAGGAGCATGTCAGGTTTGGGCTTGGTTGTTTTAGAAGCACCTGGGTGTGCCTACCT
ACTCCTCTTTTCTTTTAAAAGGGCCCACAATGCTCCAATTTCCTGTCTCCTTTAGAGAGACATGAAACTATCACA
GGTGCTGGATGACAATAAAAGTTTATGTTCCT
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FIGURE 3981

ATGGTAACGTGGCTTTACAGATTTTTACCCACTTCAAATATGGCCGCCAAGCTCCGTTCTCTTTTACCGCCTGAT
CTACGGCTACAATTCTGGCTTCATGCCCGCCTCCAAAAGTGCTTCCTCTCGAGGGGTTGTGGTTCTTACTGCGCA
GGCGCAAAAGCAAGTCCTCTTCCGGGCAAAATGGCGATGGGACTAATGTGCGGACGCCGGGAGCTTCTGCGCTTG
CTACAGTCCGGGCGTCGGGTCCACAGCGTCGCAGGGCCCTCGCAATGGCTTGGGAAACCGCTGACCACACGGCTC
CTATTCCCAGTAGCCCCGTGCTGCTGTCGCCCACACTACCTCTTCCTTGCGGCTTCCGGCCCCCGCAGCCTCAGT
ACCTCTGCTATCTCTTTTGCAGAAGTCCAGGTTCAGGCCCCTCCTGTTGTTGCTGCAACTCCCTCACCCACAGCA
GTACCTGAGGTGGCTTCTGGAGAGACTGCAGATGTAGTCCAAACTGCTGCAGAGCAGAGCTTCGCTGAACTGGGG
CTGGGGTCATACACCCCAGTGGGACTGATCCAGAATTTACTGGAATTTATGCATGTTGATCTGGGCCTACCTTGG
TGGGGGGCCATTGCTGCATGTACAGTCTTTGCCCGCTGCCTGATTTTTCCTCTCATCGTGACGGGCCAGCGAGAG
GCAGCCAGGATCCACAATCACTTGCCAGAGATCCAGAAGTTTTCCAGTCGAATCAGAGAGGCCAAGTTAGCAGGA
GACCATATTGAGTATTACAAGGCTTCCTCGGAGATGGCACTTTACCAGAAAAAACATGGTATTAAACTCTATAAA
CCTCTCATTCTCCCTGTGACTCAGGCCCCAATCTTCATCTCCTTCTTCATTGCTTTGAGAGAGATGGCCAACCTT
CCTGTGCCCAGCCTGCAGACAGGTGGCCTCTGGTGGTTCCAGGATCTCACGGTATCCGATCCCATCTACATATTA
CCACTGGCAGTCACTGCTACAATGTGGGCTGTTCTTGAGCTAGGTGCTGAGACAGGTGTGCAAAGTTCTGACCTT
CAGTGGATGAGAAATGTCATCAGAATGATGCCCCTGATAACCTTGCCCATAACCATGCATTTCCCCACGGCAGTG
TTTATGTACTGGCTCTCCTCCAATTTGTTTTCCCTGGTCCAAGTATCCTGTCTCCGGATTCCAGCAGTACGCACT
GTACTTAAAATCCCCCAGCGTGTTGTACATGACCTGGACAAATTACCTCCACGGGAAGGCTTCCTAGAGAGCTTC
AAAAAAGGCTGGAAAAATGCTGAAATGACGCGTCAGCTGCGAGAGCGTGAACAACGCATGCGGAATCAGTTGGAG
CTAGCAGCCAGGGGTCCTTTACGACAGACCTTTACCCACAACCCTCTCCTACAACCTGGAAAGGATAACCCTCCC
AATATCCCTAGCAGCAGCAGCAAACCAAAGTCAAAGTATCCCTGGCACGACACACTTGGCTGA

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FIGURE 3982

MVTWLYRFLPTSNMAAKLRSLLPPDLRLQFWLHARLQKCFLSRGCGSYCAGAKASPLPGKMAMGLMCGRRELLRL
LQSGRRVHSVAGPSQWLGKPLTTRLLFPVAPCCCRPHYLFLAASGPRSLSTSAISFAEVQVQAPPVVAATPSPTA
VPEVASGETADVVQTAAEQSFAELGLGSYTPVGLIQNLLEFMHVDLGLPWWGAIAACTVFARCLIFPLIVTGQRE
AARIHNHLPEIQKFSSRIREAKLAGDHIEYYKASSEMALYQKKHGIKLYKPLILPVTQAPIFISFFIALREMANL
PVPSLQTGGLWWFQDLTVSDPIYILPLAVTATMWAVLELGAETGVQSSDLQWMRNVIRMMPLITLPITMHFPTAV
FMYWLSSNLFSLVQVSCLRIPAVRTVLKIPQRVVHDLDKLPPREGFLESFKKGWKNAEMTRQLREREQRMRNQLE
LAARGPLRQTFTHNPLLQPGKDNPPNIPSSSSKPKSKYPWHDTLG

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FIGURE 3983

CTCCCGGGTCAGCTGGTGCTGGCGTCAGGCGCTGGGCGGGCTCGCCAGGACCTGGCAAGGCTTGTTTACTATGGC
CGATGATCTGGAGCAGCAGTCTCAAGGCTGGCTGAGTAGCTGGCTGCCCACGTGGCGCCCCACTTCCATGTCTCA
GCTGAAGAATGTGGAAGCCAGGATCCTCCAGTGTCTCCAGAATAAGTTCCTGGCCAGATATGTATCCCTCCCAAA
CCAGAATAAGATCTGGACGGTGACTGTGAGCCCCGAGCAAAACGACCGCACCCCCTTGGTGATGGTGCATGGTTT
TGGGGGCGGCGTGGGTCTCTGGATCCTCAACATGGACTCACTGAGTGCCCGCCGCACACTGCACACCTTCGATCT
GCTTGGCTTCGGGCGAAGCTCAAGGCCAGCATTCCCAAGGGACCCGGAGGGGGCTGAGGATGAGTTTGTGACATC
GATAGAGACATGGCGGGAGACCATGGGGATCCCCAGCATGATCCTCCTGGGGCACAGTTTGGGAGGATTCCTGGC
CACTTCTTACTCAATCAAGTACCCTGATAGAGTTAAACACCTCATCCTGGTGGACCCATGGGGCTTTCCCCTCCG
ACCAACTAACCCCAGTGAGATCCGTGCACCCCCAGCCTGGGTCAAAGCCGTGGCATCTGTCCTAGGACGTTCCAA
TCCATTGGCTGTTCTTCGAGTAGCTGGGCCCTGGGGGCCTGGTCTGGTGCAGCGATTCCGGCCGGACTTCAAACG
CAAGTTTGCAGACTTCTTTGAAGATGATACCATATCAGAGTATATTTACCACTGCAACGCACAGAATCCCAGTGG
TGAGACAGCATTCAAAGCCATGATGGAGTCCTTTGGCTGGGCCCGGCGCCCTATGCTGGAGCGAATTCACTTGAT
TCGAAAAGATGTGCCTATCACTATGATCTACGGGTCCGACACCTGGATAGATACCAGTACGGGAAAAAAGGTGAA
GATGCAGCGGCCGGATTCCTATGTCCGAGACATGGAGATTAAGGGTGCCTCCCACCATGTCTATGCTGACCAGCC
ACACATCTTCAATGCTGTGGTGGAGGAGATCTGCGACTCAGTTGATTGAGCTGCTCTCTGAAGAGGAAGAGGAGA
AAGCCAGAGAGTCACTCTTACCTCCCTGTCTGCTTACTCACCCACTCTGTCCTTTCCTCACCAACTAACATGTGC
CAGCCAGGCAGAGTCTTGTGCTGTTCCCAGAACAGGACGACAGTGAAAAGAACACTCTTGACCCTACACTGAAGG
CTGAAGGCAGAAGCCACAAGAGGCCTTGAGTGCCACCCCCAGGGAAGAACATAAAGGGTTGCACAATGCCACCCA
TCCACTCCTTGCCAAGTGTTACCCAGATGGTGGAGGATGTGAAGGGATTGCACCAAGCCACATTCACTCTCTCTG
TGGCCTTTCTTCCTCTGGGCAAAGAAGGGCTTCCAGTGGCCTTTCCTCACTCTGTAGTGTTTGTGGGGATAGGTT
CCATGCAAGAACACCTTCCTCCTCCATCCCCCACTTCACCCCATCCCATACCAGTTCCATCCAGGGTCTGCTTAA
CTGCCAAGAGCAGGTCCTGGAGTTCCCTTCACCTGCAGAGTCCTTTTCATGACCTAGGAGGTCTTATTCAAAGCC
CTCATTGACAGAGGAGGAAACAGGCCAAGGCAGGACATGGCTGGACCATGGTGATACAGCTCTGTGTGATTCAAG
TTCTGGCAGAGCTTGTAAGGCTAGAGCCCAGGTCTGCCGACACCCTGTGCTTGTTGCACACTTGATTTGCTAAGG
CTGGAGACAGGCACCATTGCCATGGGGCTGGTCCTAGTCACTGGCCGAGGATAAGCCCGTCCCTGTCCCACATTC
TAGCCCCACTATGCGGGGGTGCTGTTGTCCTGCCTGTGTCTCATCCCCAGCTGCCTAAGCTAGGGACACTCAAGT
GCTTCCTTCCTTGCCCCATCTTCCTCCCAACTGGAGGCCTCTGAGCCTCCCCTGTGCCTTGGGCCCTGAAGCCCC
ATATGTAGTATAGAGCAAAGGTGGCTCCTGGTGAAGAGAGGGTGGAAAGGCCCTTCAGCCCCAGGGCCATGTCTG
GGTTCTCCATGCCCATCAGTCTCTGCAGTTTCTCTACCTGCCCCCAGAGCTGAGGCCATCTGCAAGCCCCTGCCC
ATGGCCCAATGGGGAGCCTCCAGCCACAAGTTCCCTGTCCTTATCAGCCACTGGGTGGTTCCCACTGCATGACCC
TCTATCCCTGCCATCTGTCCCCATGGTTTCCAGCTCAATCCACCCCTGACCCATCTGTCAGCTTTTTCCCAGGGA
GCCGTTTCAGGGGTTCTGGGCAGTAGGCTGGGCCTGGCCTCAGAACCTGGTGGCTCCTGCCTGCTCCTTCACTTT
TGTAAAACCATCCCCTTCACCAGAATGGTATTAACTCCTGGTGCTTTGTACTACTGGTCCAGCTGCCTTGGGCTC
CTTTTCTATATTAATAAAGAAACGAGTAAAAATT

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FIGURE 3984

CATCCGGTGTGGTCGACGGGTCCTCCAAGAGTTTGGGGCGCGGACCGGAGTACCTTGCGTGCAGTT**ATG**TCGGCG
TCGGTAGTGTCTGTCATTTCGCGGTTCTTAGAAGAGTACTTGAGCTCCACTCCGCAGCGTCTGAAGTTGCTGGAC
GCGTACCTGCTGTATATACTGCTGACCGGGGCGCTGCAGTTCGGTTACTGTCTCCTCGTGGGGACCTTCCCCTTC
AACTCTTTTCTCTCGGGCTTCATCTCTTGTGTGGGGAGTTTCATCCTAGCGGTTTGCCTGAGAATACAGATCAAC
CCACAGAACAAAGCGGATTTCCAAGGCATCTCCCCAGAGCGAGCCTTTGCTGATTTTCTCTTTGCCAGCACCATC
CTGCACCTTGTTGTCATGAACTTTGTTGGC**TGA**ATCATTCTCATTTACTTAATTGAGGAGTAGGAGACTAAAAGA
ATGTTCACTCTTTGAATTTCCTGGATAAGAGTTCTGGAGATGGCAGCTTATTGGACACATGGATTTTCTTCAGAT
TTGACACTTACTGCTAGCTCTGCTTTTTATGACAGGAGAAAAGCCCAGAGTTCACTGTGTGTCAGAACAACTTTC
TAACAAACATTTATTAATCCAGCCTCTGCCTTTCATTAAATGTAACCTTTTGCTTTCCAAATTAAAGAACTCCAT
GCCACTCCTCAAAAAAAAAAAAAA

4320/6881
FIGURE 3985

MSASVVSVISRFLEEYLSSTPQRLKLLDAYLLYILLTGALQFGYCLLVGTFPFNSFLSGFISCVGSFILAVCLRI
QINPQNKADFQGISPERAFADFLFASTILHLVVMNFVG

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FIGURE 3986

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GTGTTGGTTCAGAGGAGGGACCAGGCAGAAGGTGGTTGAGAGGCAGAGCTGCCCCTGAGTGAGCCATGCAGAGGA
TCTCCTCCCTCATCCATCTCTCTCTCTTCTGGGCAGGAGTCATGTCAGCCATTGAGTTGGTGCCTGAACACCAAA
CAGTGCCTGTGTCAATAGGGGTCCCTGCCACCCTCAGGTGCTCCATGAAAGGAGAAGCGATCGGTAACTACTATA
TCAACTGGTACAGGAAGACCCAAGATATCCAGAACCCTGACCCTGCCGTGTACCAGCTGAGAGACTCTAAATCCA
GTGACAAGTCTGTCTGCCTATTCACCGATTTTGATTCTCAAACAAATGTGTCACAAAGTAAGGATTCTGATGTGT
ATATCACAGACAAAACTGTGCTAGACATGAGGTCTATGGACTTCAAGAGCAACAGTGCTGTGGCCTGGAGCAACA
AATCTGACTTTGCATGTGCAAACGCCTTCAACAACAGCATTATTCCAGAAGACACCTTCTTCCCCAGCCCAGAAA
GTTCCTGTGATGTCAAGCTGGTCGAGAAAAGCTTTGAAACAGATACGAACCTAAACTTTCAAAACCTGTCAGTGA
TTGGGTTCCGAATCCTCCTCCTGAAAGTGGCCGGGTTTAATCTGCTCATGACGCTGCGGCTGTGGTCCAGCTGAG
ATCTGCAAGATTGTAAGACAGCCTGTGCTCCCTCGCTCCTTCCTCTGCATTGCCCCTCTTCTCCCTCTCCAAACA
GAGGGAACTCTCCTACCCCCAAGGAGGTGAAAGCTGCTACCACCTCTGTGCCCCCCGGCAATGCACCAACTGGA
TCCTACCCGAATTTATGATTAAGATTGCTGAAGAGCTGCCAAACACTGCTGCCACCCCCTCTGTTCCCTTATTGC
TGCTTGTCACTGCCTGACATTCACGGCAGAGGCAAGGCTGCTGCAGCTCCGCTGGCTGTGCACATTCCCTCCTGC
TCCCCAGAGACTGCCTCCGCCATCCCACAGATGATGGATCTTCAGTGGGTTCTCTTGGGCTCTAGGTCCCGGAGA
ATGTTGTGAGGGGTTTATTTTTTTTTAATAGTGTTCATAAAGAAAGACATAGTATTCTTCTTCTCAAGACGTGGG
GGGAAATTATCTCATTATCGAGGCCCTGCTATGCTGTGTGTCTGGGCGTGTTGTATGTCCTGCTGCCGATGCCTT
CATTAAAATGATTTGGAAGAGC
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FIGURE 3987

CCTTATTCGAGAGGTGTCAGGGCTGGGAGACTAGGATGTCGGACACGTGGAGCTCTATCCAGGCCCACAAGAAGC
AGCTGGACTCTCTGCGGGAGAGGCTGCAGCGGAGGCGGAAGCAGGACTCGGGGCACTTGGCAGCAGACGTTCGCC
CTTCTGCAAGTAGTTCGCGGTTCCTCCTCACGCTGGGCCTCGGTTCTTCCAGCTCACTTTTACCGGACGGACGCT
TGAGCCCCACCCTCGTCCGCCTTGCCCACTCCTCTTCAGACTGCGAGGACGTCGCCTTTGTGAGGCTGCTCAGCC
CCCTATCCCGCGAAGCAGCAAGAACCCCTTTTTGTTGCTGCTTTG

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FIGURE 3988

GAGAATTGGCTATATCCTGGAGCGAGTGCTGGGAGGTGCTAGTCCGCCGCGCCTTATTCGAGAGGTGTCAGGGCT
GGGAGACTAGG<u>ATG</u>TCGGACACGTGGAGCTCTATCCAGGCCCACAAGAAGCAGCTGGACTCTCTGCGGGAGAGGC
TGCAGCGGAGGCGGAAGCAGGACTCGGGGCACTTGGATCTACGGAATCCAGAGGCAGCATTGTCTCCAACCTTCC
GTAGTGACAGCCCAGTGCCTACTGCACCCACCTCTGGTGGCCCTAAGCCCAGCACAGCTTCAGCAGTTCCTGAAT
TAGCTACAGATCCTGAGTTAGAGAAGAAGTTGCTACACCACCTCTCTGATCTGGCCTTAACATTGCCCACTGATG
CTGTGTCCATCTGTCTTGCCATCTCCACGCCAGATGCTCCTGCCACTCAAGATGGGGTAGAAAGCCTCCTGCAGA
AGTTTGCAGCTCAGGAGTTGATTGAGGTAAAGCGAGGTCTCCTACAAGATGATGCACATCCTACTCTTGTAACCT
ATGCTGACCATTCCAAGCTCTCTGCCATGATGGGTGCTGTGGCAGAAAAGAAGGGCCCTGGGGAGGTAGCAGGGA
CTGTCACAGGGCAGAAGCGGCGTGCAGAACAGGACTCGACTACAGTAGCTGCCTTTGCCAGTTCGTTAGTCTCTG
GTCTGAACTCTTCAGCATCGGAACCAGCAAAGGAGCCAGCCAAGAAATCAAGGAAACATGCTGCCTCAGATGTTG
ATCTGGAGATAGAGAGCCTTCTGAACCAACAGTCCACTAAGGAACAACAGAGCAAGAAGGTCAGTCAGGAGATCC
TAGAGCTATTAAATACTACAACAGCCAAGGAACAATCCATTGTTGAAAAATTTCGCTCTCGAGGTCGGGCCCAAG
TGCAAGAATTCTGTGACTATGGAACCAAGGAGGAGTGCATGAAAGCCAGTGATGCTGATCGACCCTGTCGCAAGC
TGCACTTCAGACGAATTATCAATAAACACACTGATGAGTCTTTAGGTGACTGCTCTTTCCTTAATACATGTTTCC
ACATGGATACCTGCAAGTATGTTCACTATGAAATTGATGCTTGCATGGATTCTGAGGCCCCTGGCAGCAAAGACC
ACACGCCAAGCCAGGAGCTTGCTCTTACACAGAGTGTCGGAGGTGATTCCAGTGCAGACCGACTCTTCCCACCTC
AGTGGATCTGTTGTGATATCCGCTACCTGGACGTCAGTATCTTGGGCAAGTTTGCAGTTGTGATGGCTGACCCAC
CCTGGGATATTCACATGGAACTGCCCTATGGGACCCTGACAGATGATGAGATGCGCAGGCTCAACATACCCGTAC
TACAGGATGATGGCTTTCTCTTCCTCTGGGTCACAGGCAGGGCCATGGAGTTGGGGAGAGAATGTCTAAATCTCT
GGGGGTATGAACGGGTAGATGAAATTATTTGGGTGAAGACAAATCAACTGCAACGCATCATTCGGACAGGCCGTA
CAGGTCACTGGTTGAACCATGGGAAGGAACACTGCTTGGTTGGTGTCAAAGGAAATCCCCAAGGCTTCAACCAGG
GTCTGGATTGTGATGTGATCGTAGCTGAGGTTCGTTCCACCAGTCATAAACCAGATGAAATCTATGGCATGATTG
AAAGACTATCTCCTGGCACTCGCAAGATTGAGTTATTTGGACGACCACACAATGTGCAACCCAACTGGATCACCC
TTGGAAACCAACTGGATGGGATCCACCTACTAGACCCAGATGTGGTTGCACGGTTCAAGCAAAGGTACCCAGATG
GTATCATCTCTAAACCTAAGAATTTA<u>TAG</u>AAGCACTTCCTTACAGAGCTAAGAATCCATAGCCATGGCTCTGTAA
GCTAAACCTGAAGAGTGATATTTGTACAATAGCTTTCTTCTTTATTTAAATAAACATTTGTATTGTAAAAAAAAA
AAAAAAAAA

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FIGURE 3989

MSDTWSSIQAHKKQLDSLRERLQRRRKQDSGHLDLRNPEAALSPTFRSDSPVPTAPTSGGPKPSTASAVPELATD
PELEKKLLHHLSDLALTLPTDAVSICLAISTPDAPATQDGVESLLQKFAAQELIEVKRGLLQDDAHPTLVTYADH
SKLSAMMGAVAEKKGPGEVAGTVTGQKRRAEQDSTTVAAFASSLVSGLNSSASEPAKEPAKKSRKHAASDVDLEI
ESLLNQQSTKEQQSKKVSQEILELLNTTTAKEQSIVEKFRSRGRAQVQEFCDYGTKEECMKASDADRPCRKLHFR
RIINKHTDESLGDCSFLNTCFHMDTCKYVHYEIDACMDSEAPGSKDHTPSQELALTQSVGGDSSADRLFPPQWIC
CDIRYLDVSILGKFAVVMADPPWDIHMELPYGTLTDDEMRRLNIPVLQDDGFLFLWVTGRAMELGRECLNLWGYE
RVDEIIWVKTNQLQRIIRTGRTGHWLNHGKEHCLVGVKGNPQGFNQGLDCDVIVAEVRSTSHKPDEIYGMIERLS
PGTRKIELFGRPHNVQPNWITLGNQLDGIHLLDPDVVARFKQRYPDGIISKPKNL

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FIGURE 3990

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TTTTGTGAAGAGACGAAGACTGAGCGGTTGTGGCCGCGTTGCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAG
AACCCGGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCCTCCCCTTCTTGTGAGATTTTTTTGATCTTCAGCTA
CATTTTCGGCTTTGTGAGAAACCTTACCATCAAACACGATGGCCAGCAACGTTACCAACAAGACAGATCCTCGCT
CCATGAACTCCCGTGTATTCATTGGGAATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGGCAATCTTTT
CGAAGTATGGCAAAATTGTGGGCTGCTCTGTTCATAAGGGCTTTGCCTTCGTTCAGTATGTTAATGAGAGAAATG
CCCGGGCTGCTGTAGCAGGAGAGGATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGC
CAAAAGTGAACCGAGGAAAAGCAGGTGTGAAACGATCTGCAGCGGAGATGTACGGGTCAGTAACAGAACACCCTT
CTCCGTCCCCTCTACTCAGCTCCTCTTTTGACTTGGACTATGACTTTCAACGGGACTATTATGATAGGATGTACA
GTTACCCAGCACGTGTACCTCCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAGCGTGTATCAG
GAAACACTTCACGAAGGGGCAAAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTCTGGAAATG
AAAGGAGATGACCTTCAGGCCATTAAGAAGGAGCTGACCCAGATAAAACAAAAAGTGGATTCTCTCCTGGAAAAC
CTGGAAAAAATTGAAAAGGAACAGAGCAAACAAGCAGTAGAGATGAAGAATGATAAGTCAGAAGAGGAGCAGAGC
AGCAGCTCCGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGACTCTGCTGAGGAG
GGGGACCTACTGGATGATGATGATAATGAAGATCGGGGGGATGACCAGCTGGAGTTGATCAAGGATGATGAAAAA
GAGGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATAGTGGGGTTTAG
AAATCTTATCCCATTATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTCACCAGATCCTCTCCCCTAGTA
TCTTCAGCACATGCTCACTGTTCTCCCCATCCTTGTCCTTCCCATGTTCATTAATTCATATTGCCCCGCGCCTAG
TCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTTGTTAAGTCTTACCCTGTAATTTTTGCTTTTAATTTTGA
TACCTCTTTATGACTTAACAATAAAAAGGATGTATGGTTTTTATCAACTGTCTCCAAAATAATCTCTTGTTATGC
AGGGAGTACAGTTCTTTTCATTCATACATAAGTTCAGTAGTTGCTTCCCTAACTGCAAAGGCAATCTCATTTAGT
TGAGTAGCTCTTGAAAGCAGCTTTGAGTTAGAAGTATGTGTGTTACACCCTCACATTAGTGTGCTGTGTGGGGCA
GTTCAACACAAATGTAACAATGTATTTTTGTGAATGAGAGTTGGCATGTCAAATGCATCCTCTAGAAAAATAATT
AGTGTTATAGTCTTAAGATTTGTTTTCTAAAGTTGATACTGTGGGTTATTTTTGTGAACAGCCTGATGTTTGGGA
CCTTTTTTCCTCAAAATAAACAAGTCCTTATTAAACCAGGAATTTGGAG
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FIGURE 3991

CGGCCCCCCGCATTCCCCGCCCCCACCTCCCCGCCTTGTTGTCCAACTTCTCCCGGAGCAGCCGGAGAGCAGGCG
TCGGGACGCAGCAAAGAGAGGAGAGGCCACCATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACT
GTTGCCAGGACAGACGCCTGAGGCGGCCAAGGAGGCTGAGTTAGCTGCCCGAATCCTCCTGGACCAGGGACAGAC
TCACTCTGTGGAGACACCATACGGCTCTGTCACTTTCACTGTCTATGGCACCCCCAAACCCAAACGCCCAGCGAT
CCTTACCTACCACGATGTGGGACTCAACTATAAATCTTGCTTCCAGCCACTGTTTCAGTTCGAGGACATGCAGGA
AATCATTCAGAACTTTGTGCGGGTTCATGTGGATGCCCCTGGAATGGAAGAGGGAGCCCCTGTGTTCCCTTTGGG
ATATCAGTACCCATCTCTGGACCAGCTTGCAGACATGATCCCTTGCGTCCTGCAGTACCTAAATTTCTCTACAAT
AATTGGAGTTGGTGTTGGAGCTGGAGCCTACATCCTGGCGAGATATGCTCTTAACCACCCGGACACTGTTGAAGG
TCTTGTCCTCATCAACATTGATCCCAATGCCAAGGGTTGGATGGATTGGGCAGCCCACAAGCTAACAGGCCTCAC
CTCTTCCATTCCGGAGATGATCCTTGGACATCTTTTCAGCCAGGAAGAGCTCTCTGGAAATTCTGAGTTGATACA
AAAGTACAGAAATATCATTACACATGCACCCAACCTGGATAACATTGAATTGTACTGGAACAGCTACAACAACCG
CCGAGACCTGAACTTTGAGCGTGGAGGTGATATCACCCTCAGGTGTCCTGTGATGCTGGTGGTAGGAGACCAAGC
ACCTCATGAAGATGCAGTGGTGGAATGTAACTCAAAACTGGACCCCACCCAGACCTCGTTCCTCAAGATGGCTGA
CTCCGGAGGTCAGCCCCAGCTGACTCAGCCAGGCAAGCTGACCGAGGCCTTCAAGTACTTCCTGCAAGGCATGGG
CTACATGGCCTCATCCTGCATGACTCGCCTGTCCCGGTCTCGTACAGCCTCTCTGACCAGTGCAGCATCCGTTGA
TGGCAACCGGTCCCGCTCTCGCACCCTGTCCCAGAGCAGCGAGTCTGGAACTCTTTCTTCGGGGCCCCCGGGGCA
CACCATGGAGGTCTCCTGTTGAATGGCCCTTGTTGCCCTAGAGTGGGACCCAGCCCTCACCTCCCCCAGAGCTAA
CCTGGGAGGTGCTGAAGGGGCATTGGGCCACCGTAAGCAAGGGAAAAAGGGCAGATCATGCGGGGAGATGACCTT
GATCTTTGATTGCTACCCTAACCTTGACCTTTAACCCGTGATTCCCCCCAGCTCCTGGAAGAGATGTCCTAATAT
CTCTTAGGGACCCAGACCCCTAAATTCTCCTCCTCCCCCATTTTGATGTTAAGGTGGAGAGGGCATATGCATCCT
CTGTCCTGATCTAGGTGTCTATAGCTGAGGGGTAAGAGGTTGTTGTAGTTGTCCTGGTGCCTCCATCAGACTCTC
CCTACTTGTCCCATATTTGCAAGGGGAGGGGATTTGGGGCTGGGGCTCCATTCACCAAAGCTGAGGTGGCTTCTC
ATTAACCCTTTAGGACTCTGAAGGGTATGGACCTACGTGAATGTGTGTCAGGGGGAGACTTGCTGGTGGGTTAGT
GGTCCTCAGGATGTGATAGAAACATCCAGTGTAAAAAGGAAGTTGGAATGGGAGTTGGCGGGCAGTGAACGAGTG
TGGGGAAGGATTGGTGCTGGGGCAACAGGAAGGGGCCTGGGGCCGTTTGGCTGCACTAACTTTGGTAGCTCAGTG
TGCATCTAGAGTGGGACTGGGGAGGGGAGCTAAGCTTGGGCTGGGCTGCTTGGGGCTTGGCATAGGGTGGAAAGGG
CTACCCTGGGGCTCTGACCACACTGTAGTATGTGTGGAGGGTGCCCTCCCGTCTCCCACAACTTCTGCTATAACA
ATAAACTGTAGAGGAATCTGAGTACCGTT

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FIGURE 3992

GCTGCCCCTGAACCCCAGAACAACCAGCTGGATCAGTTCTCACAGGAGCTACAGGCCGGAGACTGGGAAAC**ATG**G
TTCCAAAACTGTTCACTTCCCAAATTTGTCTGCTTCTTCTGTTGGGGCTTCTGGCTGTGGAGGGCTCACTCCATG
TCAAACCTCCACAGTTTACCTGGGCTCAATGGTTTGAAACCCAGCACATCAATATGACCTCCCAGCAATGCACCA
ATGCAATGCAGGTCATTAACAATTATCAACGGCGATGCAAAAACCAAAATACTTTCCTTCTTACAACTTTTGCTA
ACGTAGTTAATGTTTGTGGTAACCCAAATATGACCTGTCCTAGTAACAAAACTCGCAAAAATTGTCACCACAGTG
GAAGCCAGGTGCCTTTAATCCACTGTAACCTCACAACTCCAAGTCCACAGAATATTTCAAACTGCAGGTATGCGC
AGACACCAGCAAACATGTTCTATATAGTTGCATGTGACAACAGAGATCAACGACGAGACCCTCCACAGTATCCGG
TGGTTCCAGTTCACCTGGATAGAATCATC**TAA**GCTCCTGTATCAGCACTCCTCATCATCACTCATCTGCCAAGCT
CCTCAATCATAGCCAAGATCCCATCTCTCCATATACTTTGGGTATCAGCATCTGTCCTCATCAGTCTCCATACCC
CTTCAGCTTTCCTGAGCTGAAGTGCCTTGTGAACCCTGCAATAAACTGCTTTGCAAATTC

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FIGURE 3993

MVPKLFTSQICLLLLLGLLAVEGSLHVKPPQFTWAQWFETQHINMTSQQCTNAMQVINNYQRRCKNQNTFLLTTF
ANVVNVCGNPNMTCPSNKTRKNCHHSGSQVPLIHCNLTTPSPQNISNCRYAQTPANMFYIVACDNRDQRRDPPQY
PVVPVHLDRII

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FIGURE 3994

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AGAGACTTGGGTTTTGCTCCCTAGGAGCCCTGGAATAGCTTTGGCCAGAATTCCCTATCTCCCATTAGAACCTCT
CCTTTGCGTCCTTTGTTAACCTCCAAGTCTACTTGGTGAAAACGCCCACGAAGAAGTAACAAGGACTTTGTTCCT
AGTGTGCCAGGTTTGGGCACCAGTGCTGTAGTGGCTTTCTCTGCTGCTCCTTGTGCATCAGCAGACAGATGTGGT
TCACATAGGAAGAAAGACTAACGTAGGCAAAGATTTGCTCTTTCTTCAGCAGCCCTAGAAAGACGGCGGCCTGGG
TGATTCACCACTCCTTCCTCACGTCCTTGATTTTATTTGAACTGAGCTCCAGATGCTCCTCCCACCCTTTTCCTC
TTGGAAGCCAAACCCCTTTGTAATCTGTATAAGGTCCACACCCCGGGAGCTGAGTGATTGCAGAAACTGGCCTTC
CATCTCTCTCAGACACCAAGCTGCAGATCCAGGCTTTTCTGGGAAAGTGAGGCCACCATGGCTCTGGAGAAGTCT
CTTGTCCGGCTCCTTCTGCTTGTCCTGATACTGCTGGTGCTGGGCTGGGTCCAGCCTTCCCTGGGCAAGGAATCC
CGGGCCAAGAAATTCCAGCGGCAGCATATGGACTCAGACAGTTCCCCCAGCAGCAGCTCCACCTACTGTAACCAA
ATGATGAGGCGCCGGAATATGACACAGGGGCGGTGCAAACCAGTGAACACCTTTGTGCACGAGCCCCTGGTAGAT
GTCCAGAATGTCTGTTTCCAGGAAAAGGTCACCTGCAAGAACGGGCAGGGCAACTGCTACAAGAGCAACTCCAGC
ATGCACATCACAGACTGCCGCCTGACAAACGGCTCCAGGTACCCCAACTGTGCATACCGGACCAGCCCGAAGGAG
AGACACATCATTGTGGCCTGTGAAGGGAGCCCATATGTGCCAGTCCACTTTGATGCTTCTGTGGAGGACTCTACC
TAAGGTCAGAGCAGCGAGATACCCCACCTCCCTCAACCTCATCCTCTCCACAGCTGCCTCTTCCCTCTTCCTTCC
CTGCTGTGAAAGAAGTAACTACAGTTAGGGCTCCTATTCAACACACACATGCTTCCCTTTCCTGAGTCCCATCCC
TGCGTGATTTTGGGGGTGAAGAGTGGGTTGTGAGGTGGGCCCCATGTTAACCCCTCCACTCTTTCTTTCAATAAA
ACGCAGTTGCAAACACCTGAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 3995

MALEKSLVRLLLLVLILLVLGWVQPSLGKESRAKKFQRQHMDSDSSPSSSSTYCNQMMRRRNMTQGRCKPVNTFV
HEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSMHITDCRLTNGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDA
SVEDST

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FIGURE 3996

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AACTGTGCGAACCAGACCCGGCAGCCTTGCTCAGTTCAGCATAGCGGAGCGGATCCGATCGGATCGGAGCGGATC
GGAGCACACCGGAGCAGGCTCATCGAGAAGGCGTCTGCGAGACCATGGAGAACGGATACACCTATGAAGATTATA
AGAACACTGCAGAATGGCTTCTGTCTCACACTAAGCACCGACCTCAAGTTGCAATAATCTGTGGTTCTGGATTAG
GAGGTCTGACTGATAAATTAACTCAGGCCCAGATCTTTGACTACGGTGAAATCCCCAACTTTCCCCGAAGTACAG
TGCCAGGTCATGCTGGCCGACTGGTGTTTGGGTTCCTGAATGGCAGGGCCTGTGTGATGATGCAGGGCAGGTTCC
ACATGTATGAAGGGTACCCACTCTGGAAGGTGACATTCCCAGTGAGGGTTTTCCACCTTCTGGGTGTGGACACCC
TGGTAGTCACCAATGCAGCAGGAGGGCTGAACCCCAAGTTTGAGGTTGGAGATATCATGCTGATCCGTGACCATA
TCAACCTACCTGGTTTCAGTGGTCAGAACCCTCTCAGAGGGCCCAATGATGAAAGGTTTGGAGATCGTTTCCCTG
CCATGTCTGATGCCTACGACCGGACTATGAGGCAGAGGGCTCTCAGTACCTGGAAACAAATGGGGGAGCAACGTG
AGCTACAGGAAGGCACCTATGTGATGGTGGCAGGCCCCAGCTTTGAGACTGTGGCAGAATGTCGTGTGCTGCAGA
AGCTGGGAGCAGACGCTGTTGGCATGAGTACAGTACCAGAAGTTATCGTTGCACGGCACTGTGGACTTCGAGTCT
TTGGCTTCTCACTCATCACTAACAAGGTCATCATGGATTATGAAAGCCTGGAGAAGGCCAACCATGAAGAAGTCT
TAGCAGCTGGCAAACAAGCTGCACAGAAATTGGAACAGTTTGTCTCCATTCTTATGGCCAGCATTCCACTCCCTG
ACAAAGCCAGTTGACCTGCCTTGGAGTCGTCTGGCATCTCCCACACAAGACCCAAGTAGCTGCTACCTTCTTTGG
CCCCTTGCTGGAGTCATGTGCCTCTGTCCTTAGGTTGTAGCAGAAAGGAAAAGATTCCTGTCCTTCACCTTTCCC
ACTTTCTTCTACCAGACCCTTCTGGTGCCAGATCCTCTTCTCAAAGCTGGGATTACAGGTGTGAGCATAGTGAGA
CCTTGGCGCTACAAAATAAAGCTGTTCTCATTCCTGTTCTTTCTTACACAAGAGCTGGAGCCCGTGCCCTACCAC
ACATCTGTGGAGATGCCCAGGATTTGACTCGGGCCTTAGAACTTTGCATAGCAGCTGCTACTAGCTCTTTGAGAT
AATACATTCCGAGGGGCTCAGTTCTGCCTTATCTAAATCACCAGAGACCAAACAAGGACTAATCCAATACCTCTT
GGA
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FIGURE 3997

CAGACAGACCAATCACGCGCATTCTTCGGCCACGACAAGCGCGCCTCTGATCACGTGACCAGGTCCGCTACCCAC
GTGGGGGCTCAGCGTGCACCCTTCTTTGTGCTCGGGTTAGGAGGAGCTAGGCTGCCATCGGGCCGGTGCAGATAC
GGGGTTGCTCTTTTGCTCATAAGAGGGGCTTCGCTGGCAGTCTGAACGGCAAGCTTGAGTCAGGACCCTTAATTA
AGATCCTCAATTGGCTGGAGGGCAGATCTCGCGAGTAGGGCAACGCGGTAAAAATATTGCTTCGGTGGGTGACGC
GGTACAGCTGCCCAAGGGCGTTCGTAACGGGA**ATG**CCGAAGCGTGGGAAAAAGGGAGCGGTGGCGGAAGACGGGG
ATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGACGGCCGCAAAGAAAAATGACAAAGAGGCAGCAGGAG
AGGGCCCAGCCCTGTATGAGGACCCCCCAGATCAGAAAACCTCACCCAGTGGCAAACCTGCCACACTCAAGATCT
GCTCTTGGAATGTGGATGGGCTTCGAGCCTGGATTAAGAAGAAAGGATTAGATTGGGTAAAGGAAGAAGCCCCAG
ATATACTGTGCCTTCAAGAGACCAAATGTTCAGAGAACAAACTACCAGCTGAACTTCAGGAGCTGCCTGGACTCT
CTCATCAATACTGGTCAGCTCCTTCGGACAAGGAAGGGTACAGTGGCGTGGGCCTGCTTTCCCGCCAGTGCCCAC
TCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATCAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGT
TTGTGCTGGTAACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAGTACCGGCAGCGCTGGGATG
AAGCCTTTCGCAAGTTCCTGAAGGGCCTGGCTTCCCGAAAGCCCCTTGTGCTGTGTGGAGACCTCAATGTGGCAC
ATGAAGAAATTGACCTTCGCAACCCCAAGGGGAACAAAAAGAATGCTGGCTTCACGCCACAAGAGCGCCAAGGCT
TCGGGGAATTACTGCAGGCTGTGCCACTGGCTGACAGCTTTAGGCACCTCTACCCCAACACACCCTATGCCTACA
CCTTTTGGACTTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCTTGATTACTTTTTGTTGTCCCACT
CTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGATCACTGTCCTATCACCCTAT
ACCTAGCACTG**TGA**CACCACCCCTAAATCACTTTGAGCCTGGGAAATAAGCCCCCTCAACTACCATTCCTTCTTT
AAACACTCTTCAGAGAAATCTGCATTCTATTTCTCATGTATAAAACTAGGAATCCTCCAACCAGGCTCCTGTGAT
AGAGTTCTTTTAAGCCCAAGATTTTTTATTTGAGGGTTTTTTGTTTTTTAAAAAAAAAATTGAACAAAGACTACTA
ATGACTTTGTTTGAATTATCCACATGAAAATAAAGAGCCATAGTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3998

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MPKRGKKGAVAEDGDELRTEPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLKICSWNVDGLRAW
IKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEE
HDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKG
NKKNAGFTPQERQGFGELLQAVPLADSFRHLYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKI
RSKALGSDHCPITLYLAL
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FIGURE 3999

CAGACAGACCAATCACGCGCATTCTTCGGCCACGACAAGCGCGCCTCTGATCACGTGACCAGGTCCGCTACCCAC
GTGGGGGCTCAGCGTGCACCCTTCTTTGTGCTCGGGTTAGGAGGAGCTAGGCTGCCATCGGGCCGGTGCAGATAC
GGGGTTGCTCTTTTGCTCATAAGAGGGGCTTCGCTGGCAGTCTGAACGGCAACGCGGTAAAAATATTGCTTCGGT
GGGTGACGCGGTACAGCTGCCCAAGGGCGTTCGTAACGGGA**ATG**CCGAAGCGTGGGAAAAAGGGAGCGGTGGCGG
AAGACGGGGATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGACGGCCGCAAAGAAAAATGACAAAGAGG
CAGCAGGAGAGGGCCCAGCCCTGTATGAGGACCCCCCAGATCAGAAAACCTCACCCAGTGGCAAACCTGCCACAC
TCAAGATCTGCTCTTGGAATGTGGATGGGCTTCGAGCCTGGATTAAGAAGAAAGGATTAGATTGGGTAAAGGAAG
AAGCCCCAGATATACTGTGCCTTCAAGAGACCAAATGTTCAGAGAACAAACTACCAGCTGAACTTCAGGAGCTGC
CTGGACTCTCTCATCAATACTGGTCAGCTCCTTCGGACAAGGAAGGGTACAGTGGCGTGGGCCTGCTTTCCCGCC
AGTGCCCACTCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATCAGGAAGGCCGGGTGATTGTGGCTGAAT
TTGACTCGTTTGTGCTGGTAACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAGTACCGGCAGC
GCTGGGATGAAGCCTTTCGCAAGTTCCTGAAGGGCCTGGCTTCCCGAAAGCCCCTTGTGCTGTGTGGAGACCTCA
ATGTGGCACATGAAGAAATTGACCTTCGCAACCCCAAGGGGAACAAAAAGAATGCTGGCTTCACGCCACAAGAGC
GCCAAGGCTTCGGGGAATTACTGCAGGCTGTGCCACTGGCTGACAGCTTTAGGCACCTCTACCCCAACACACCCT
ATGCCTACACCTTTTGGACTTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCTTGATTACTTTTTGT
TGTCCCACTCTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGATCACTGTCCTA
TCACCCTATACCTAGCACTG**TGA**CACCACCCCTAAATCACTTTGAGCCTGGGAAATAAGCCCCCTCAACTACCAT
TCCTTCTTTAAACACTCTTCAGAGAAATCTGCATTCTATTTCTCATGTATAAAACTAGGAATCCTCCAACCAGGC
TCCTGTGATAGAGTTCTTTTAAGCCCAAGATTTTTTATTTGAGGGTTTTTTGTTTTTTAAAAAAAAAATTGAACAA
AGACTACTAATGACTTTGTTTGAATTATCCACATGAAAATAAAGAGCCATAGTTTCAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 4000

MPKRGKKGAVAEDGDELRTEPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLKICSWNVDGLRAW
IKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEE
HDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKG
NKKNAGFTPQERQGFGELLQAVPLADSFRHLYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKI
RSKALGSDHCPITLYLAL

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FIGURE 4001

CAGACAGACCAATCACGCGCATTCTTCGGCCACGACAAGCGCGCCTCTGATCACGTGACCAGGTCCGCTACCCAC
GTGGGGGCTCAGCGTGCACCCTTCTTTGTGCTCGGGTTAGGAGGAGCTAGGCTGCCATCGGGCCGGTGCAGATAC
GGGGTTGCTCTTTTGCTCATAAGAGGGGCTTCGCTGGCAGTCTGAACGGCAAGCTTGAGCAACGCGGTAAAAATA
TTGCTTCGGTGGGTGACGCGGTACAGCTGCCCAAGGGCGTTCGTAACGGGA**ATG**CCGAAGCGTGGGAAAAAGGGA
GCGGTGGCGGAAGACGGGGATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGACGGCCGCAAAGAAAAAT
GACAAAGAGGCAGCAGGAGAGGGCCCAGCCCTGTATGAGGACCCCCCAGATCAGAAAACCTCACCCAGTGGCAAA
CCTGCCACACTCAAGATCTGCTCTTGGAATGTGGATGGGCTTCGAGCCTGGATTAAGAAGAAAGGATTAGATTGG
GTAAAGGAAGAAGCCCCAGATATACTGTGCCTTCAAGAGACCAAATGTTCAGAGAACAAACTACCAGCTGAACTT
CAGGAGCTGCCTGGACTCTCTCATCAATACTGGTCAGCTCCTTCGGACAAGGAAGGGTACAGTGGCGTGGGCCTG
CTTTCCCGCCAGTGCCCACTCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATCAGGAAGGCCGGGTGATT
GTGGCTGAATTTGACTCGTTTGTGCTGGTAACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAG
TACCGGCAGCGCTGGGATGAAGCCTTTCGCAAGTTCCTGAAGGGCCTGGCTTCCCGAAAGCCCCTTGTGCTGTGT
GGAGACCTCAATGTGGCACATGAAGAAATTGACCTTCGCAACCCCAAGGGGAACAAAAAGAATGCTGGCTTCACG
CCACAAGAGCGCCAAGGCTTCGGGGAATTACTGCAGGCTGTGCCACTGGCTGACAGCTTTAGGCACCTCTACCCC
AACACACCCTATGCCTACACCTTTTGGACTTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCTTGAT
TACTTTTTGTTGTCCCACTCTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGAT
CACTGTCCTATCACCCTATACCTAGCACTG**TGA**CACCACCCCTAAATCACTTTGAGCCTGGGAAATAAGCCCCCT
CAACTACCATTCCTTCTTTAAACACTCTTCAGAGAAATCTGCATTCTATTTCTCATGTATAAAACTAGGAATCCT
CCAACCAGGCTCCTGTGATAGAGTTCTTTTAAGCCCAAGATTTTTTATTTGAGGGTTTTTTGTTTTTTAAAAAAA
AATTGAACAAAGACTACTAATGACTTTGTTTGAATTATCCACATGAAAATAAAGAGCCATAGTTTCAAAAAAAAA
AAAAAAAAAAA

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FIGURE 4002

MPKRGKKGAVAEDGDELRTEPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLKICSWNVDGLRAW
IKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEE
HDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKG
NKKNAGFTPQERQGFGELLQAVPLADSFRHLYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKI
RSKALGSDHCPITLYLAL

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FIGURE 4003

AGTGCTATCTGCAGGCTGGCCAGCTTCCTCTGCGCTCCGGAAAGCTGCGGCCCAGCGCGGACTAGTGAGGACCTC
CACAGCTCCTGACATTGCCAGGAGTCCTGTCGGCGTTTTCTCCCAGCCTCCGCC**ATG**CCGGCGGTGCTGGGTTTT
GAAGGCAGCGCCAATAAGATTGGCGTGGGCGTGGTGCGGGATGGCAAGGTGCTGGCGAACCCGCGGCGGACTTAC
GTCACGCCTCCTGGCACAGGATTCCTTCCAGGTGATACAGCCAGGCATCACCGAGCTGTTATCCTAGACCTGCTG
CAGGAGGCACTAACAGAGTCTGGATTAACCTCCCAGGATATCGACTGCATTGCATACACCAAGGGCCCTGGCATG
GGTGCCCCACTGGTTTCTGTGGCTGTTGTGGCCCGTACTGTGGCCCAACTGTGGAATAAGCCATTGGTGGGTGTG
AACCACTGTATAGGCCACATTGAGATGGGCCGCCTCATCACTGGAGCCACCAGCCCAACCGTGTTGTATGTGAGT
GGAGGAAATACGCAGGTGATTGCATACTCGGAACATCGTTACCGTATCTTTGGGGAAACCATCGATATTGCAGTG
GGTAATTGTCTGGATCGTTTTGCTCGAGTGCTGAAGATTTCTAACGACCCAAGTCCAGGATACAACATTGAACAG
ATGGCAAAGCGAGGCAAGAAGCTAGTTGAGCTGCCATACACTGTAAAGGGGATGGACGTCTCATTCTCAGGGATC
CTGTCTTTCATTGAGGATGTAGCCCATCGGATGCTGGCCACAGGCGAGTGTACTCCTGAGGATCTGTGTTTCTCC
CTGCAGGAAACTGTGTTTGCAATGCTGGTAGAGATCACAGAGCGAGCCATGGCACATTGTGGCTCCCAGGAGGCC
CTCATTGTGGGAGGAGTGGGGTGTAATGTGAGGCTACAGGAGATGATGGCAACAATGTGCCAGGAACGTGGAGCC
CGGCTTTTTGCTACAGATGAGAGATTCTGTATTGACAATGGAGCGATGATAGCCCAGGCTGGCTGGGAGATGTTT
CGGGCTGGACACAGGACCCCACTCAGTGATTCTGGGGTTACACAGAGGTATCGGACAGATGAAGTAGAGGTGACC
TGGAGGGAC**TAA**TAAGATCAACAGAATCAGAGTAGATAGTTCCTTAATCGGAACCCAAAGGACCCCGTGCCTCAA
TCTCTATCCTGATGTCATGGGAGTCCTAGCAAAGCTATAGACTCCAAGCAAGGCTTGGGGTCCTTTATGGAACCC
CAGGATGACTCAGCAATAAAATATTTTTGGTTTTTTGGTTTTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4004

MPAVLGFEGSANKIGVGVVRDGKVLANPRRTYVTPPGTGFLPGDTARHHRAVILDLLQEALTESGLTSQDIDCIA
YTKGPGMGAPLVSVAVVARTVAQLWNKPLVGVNHCIGHIEMGRLITGATSPTVLYVSGGNTQVIAYSEHRYRIFG
ETIDIAVGNCLDRFARVLKISNDPSPGYNIEQMAKRGKKLVELPYTVKGMDVSFSGILSFIEDVAHRMLATGECT
PEDLCFSLQETVFAMLVEITERAMAHCGSQEALIVGGVGCNVRLQEMMATMCQERGARLFATDERFCIDNGAMIA
QAGWEMFRAGHRTPLSDSGVTQRYRTDEVEVTWRD

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FIGURE 4005A

GGAATCGGACGCCCCAGGCATATACAAGCTGAGTTTCAGCCATGGAAAAACTCCATGGGCATGTGTCTGCCCATC
CAGACATCCTCTCCTTGGAGAACCGGTGCCTGGCTATGCTCCCTGACTTACAGCCCTTGGAGAAACTACATCAGC
ATGTATCTACCCACTCAGATATCCTCTCCTTGAAGAACCAGTGCCTAGCCACGCTTCCTGACCTGAAGACCATGG
AAAAACCACATGGATATGTGTCTGCCCACCCAGACATCCTCTCCTTGGAGAACCAGTGCCTGGCCACACTTTCTG
ACCTGAAGACCATGGAGAAACCACATGGACATGTTTCTGCCCACCCAGACATCCTCTCCTTGGAGAACCGGTGCC
TGGCCACCCTCTCTAGTCTAAAGAGCACTGTGTCTGCCAGCCCCTTGTTCCAGAGTCTACAGATATCTCACATGA
CGCAAGCTGATTTGTACCGTGTGAACAACAGCAATTGCCTGCTCTCTGAGCCTCCAAGTTGGAGGGCTCAGCATT
TCTCTAAGGGACTAGACCTTTCAACCTGCCCTATAGCCCTGAAATCCATCTCTGCCACAGAGACAGCTCAGGAAG
CAACTTTGGGTCGTTGGTTTGATTCAGAAGAGAAGAAAGGGGCAGAGACCCAAATGCCTTCTTATAGTCTGAGCT
TGGGAGAGGAGGAGGAGGTGGAGGATCTGGCCGTGAAGCTCACCTCTGGAGACTCTGAATCTCATCCAGAGCCTA
CTGACCATGTCCTTCAGGAAAAGAAGATGGCTCTACTGAGCTTGCTGTGCTCTACTCTGGTCTCAGAAGTAAACA
TGAACAATACATCTGACCCCACCCTGGCTGCCATTTTTGAAATCTGTCGTGAACTTGCCCTCCTGGAGCCTGAGT
TTATCCTCAAGGCATCTTTGTATGCCAGGCAGCAGCTGAACGTCCGGAATGTGGCCAATAACATCTTGGCCATTG
CTGCTTTCTTGCCGGCGTGTCGCCCCCACCTGCGACGATATTTCTGTGCCATTGTCCAGCTGCCTTCTGACTGGA
TCCAGGTGGCTGAGCTTTACCAGAGCCTGGCTGAGGGAGATAAGAATAAGCTGGTGCCCCTGCCCGCCTGTCTCC
GTACTGCCATGACGGACAAATTTGCCCAGTTTGACGAGTACCAGCTGGCTAAGTACAACCCTCGGAAGCACCGGG
CCAAGAGACACCCCCGCCGGCCACCCCGCTCTCCAGGGATGGAGCCTCCATTTTCTCACAGATGTTTTCCAAGGT
ACATAGGGTTTCTCAGAGAAGAGCAGAGAAAGTTTGAGAAGGCCGGTGATACAGTGTCAGAGAAAAAGAATCCTC
CAAGGTTCACCCTGAAGAAGCTGGTTCAGCGACTGCACATCCACAAGCCTGCCCAGCACGTTCAAGCCCTGCTGG
GTTACAGATACCCCTCCAACCTACAGCTCTTTTCTCGAAGTCGCCTTCCTGGGCCTTGGGATTCTAGCAGAGCTG
GGAAGAGGATGAAGCTGTCTAGGCCAGAGACCTGGGAGCGGGAGCTGAGCCTACGGGGGAACAAAGCGTCGGTCT
GGGAGGAACTCATTGAAAATGGGAAGCTTCCCTTCATGGCCATGCTTCGGAACCTGTGCAACCTGCTGCGGGTTG
GAATCAGTTCCCGCCACCATGAGCTCATTCTCCAGAGACTCCAGCATGCGAAGTCGGTGATCCACAGTCGGCAGT
TTCCATTCAGATTTCTTAACGCCCATGATGCCATTGATGCCCTCGAGGCTCAACTCAGAAATCAAGCATTGCCCT
TTCCTTCGAATATAACACTGATGAGGCGGATACTAACTAGAAATGAAAAGAACCGTCCCAGGCGGAGGTTTCTTT
GCCACCTAAGCCGTCAGCAGCTTCGGATGGCAATGAGGATACCTGTGTTGTATGAGCAGCTCAAGAGGGAGAAGC
TGAGAGTACACAAGGCCAGACAGTGGAAATATGATGGTGAGATGCTGAACAGGTACCGACAGGCCCTAGAGACAG
CTGTGAACCTCTCTGTGAAGCACAGCCTGCCCCTGCTGCCAGGCCGCACTGTCTTGGTCTATCTGACAGATGCTA
ATGCAGACAGGCTCTGTCCAAAGAGCAACCCACAAGGGCCCCCGCTGAACTATGCACTGCTGTTGATTGGGATGA
TGATCACGAGGGCGGAGCAGGTGGACGTCGTGCTGTGTGGAGGTGACACTCTGAAGACTGCAGTGCTTAAGGCAG
AAGAAGGCATCCTGAAGACTGCCATCAAGCTCCAGGCTCAAGTCCAGGAGTTTGATGAAAATGATGGATGGTCCC
TGAATACTTTTGGGAAATACCTGCTGTCTCTGGCTGGCCAAAGGGTTCCTGTGGACAGGGTCATCCTCCTTGGCC
AAAGCATGGATGATGGAATGATAAATGTGGCCAAACAGCTTTACTGGCAGCGTGTGAATTCCAAGTGCCTCTTTG
TTGGTATCCTCCTAAGAAGGGTACAATACCTGTCAACAGATTTGAATCCCAATGATGTGACACTCTCAGGCTGTA
CTGATGCGATACTGAAGTTCATTGCAGAGCATGGGGCCTCCCATCTTCTGGAACATGTGGGCCAAATGGACAAAA
TATTCAAGATTCCACCACCCCCAGGAAAGACAGGGGTCCAGTCTCTCCGGCCACTGGAAGAGGACACTCCAAGCC
CCTTGGCTCCTGTTTCCCAGCAAGGATGGCGCAGCATCCGGCTTTTCATTTCATCCACTTTCCGAGACATGCATG
GGGAGCGGGACCTGCTGCTGAGGTCTGTGCTGCCAGCACTGCAGGCCCGAGCGGCCCCTCACCGTATCAGCCTTC
ACGGAATCGACCTCCGCTGGGGCGTCACTGAGGAGGAGACCCGTAGGAACAGACAACTGGAAGTGTGCCTTGGGG
AGGTGGAGAACGCACAGCTGTTTGTGGGGATTCTGGGCTCCCGTTATGGATACATTCCCCCCAGCTACAACCTTC
CTGACCATCCACACTTCCACTGGGCCCAGCAGTACCCTTCAGGGCGCTCTGTGACAGAGATGGAGGTGATGCAGT
TCCTGAACCGGAACCAACGTCTGCAGCCCTCTGCCCAAGCTCTCATCTACTTCCGGGATTCCAGCTTCCTCAGCT
CTGTGCCAGATGCCTGGAAATCTGACTTTGTTTCTGAGTCTGAAGAGGCCGCACGTCGGATCTCAGAACTGAAGA
GCTACCTAAGCAGACAGAAAGGGATCACCTGCCGCAGATACCCCTGTGAGTGGGGGGGTGTGGCAGCTGGCCGGC
CCTATGTTGGCGGGCTGGAGGAGTTTGGGCAGTTGGTTCTGCAGGATGTATGGAATATGATCCAGAAGCTCTACC
TGCAGCCTGGGGCCCTGCTGGAGCAGCCAGTGTCCATCCCAGACGATGACTTGGTCCAGGCCACCTTCCAGCAGC
TGCAGAAGCCACCGAGTCCTGCCCGGCCACGCCTTCTTCAGGACACAGTGCAACGGCTGATGCTGCCCCACGGAA
GGCTGAGCCTGGTGACGGGGCAGTCAGGACAGGGCAAGACAGCCTTCCTGGCATCTCTTGTGTCAGCCCTGCAGG

FIGURE 4005B

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CTCCTGATGGGGCCAAGGTGGCATCATTAGTCTTCTTCCACTTTTCTGGGGCTCGTCCTGACCAGGGTCTTGCCC
TCACTCTGCTCAGACGCCTCTGTACCTATCTGCGTGGCCAACTAAAAGAGCCAGGTGCCCTCCCCAGCACCTACC
GAAGCCTGGTGTGGGAGCTGCAGCAGAGGCTGCTGCCCAAGTCTGCTGAGTCCCTGCATCCTGGCCAGACCCAGG
TCCTGATCATCGATGGGGCTGATAGGTTAGTGGACCAGAATGGGCAGCTGATTTCAGACTGGATCCCAAAGAAGC
TTCCCCGGTGTGTACACCTGGTGCTGAGTGTGTCTAGTGATGCAGGCCTAGGGGAGACCCTTGAGCAGAGCCAGG
GTGCCCACGTGCTGGCCTTGGGGCCTCTGGAGGCCTCTGCTCGGGCCCGGCTGGTGAGAGAGGAGCTGGCCCTGT
ACGGGAAGCGGCTGGAGGAGTCACCATTTAACAACCAGATGCGACTGCTGCTGGTGAAGCGGGAATCAGGCCGGC
CGCTCTACCTGCGCTTGGTCACCGATCACCTGAGGCTCTTCACGCTGTATGAGCAGGTGTCTGAGAGACTCCGGA
CCCTGCCTGCCACTGTCCCCCTGCTGCTGCAGCACATCCTGAGCACACTGGAGAAGGAGCACGGGCCTGATGTCC
TTCCCCAGGCCTTGACTGCCCTAGAAGTCACACGGAGTGGTTTGACTGTGGACCAGCTGCACGGAGTGCTGAGTG
TGTGGCGGACACTACCGAAGGGGACTAAGAGCTGGGAAGAAGCAGTGGCTGCTGGTAACAGTGGAGACCCCTACC
CCATGGGCCCGTTTGCCTGCCTCGTCCAGAGTCTGCGCAGTTTGCTAGGGGAGGGCCCTCTGGAGCGCCCTGGTG
CCCGGCTGTGCCTCCCTGATGGGCCCCTGAGAACAGCAGCTAAACGTTGCTATGGGAAGAGGCCAGGGCTAGAGG
ACACGGCACACATCCTCATTGCAGCTCAGCTCTGGAAGACATGTGACGCTGATGCCTCAGGCACCTTCCGAAGTT
GCCCTCCTGAGGCTCTGGGAGACCTGCCTTACCACCTGCTCCAGAGCGGGAACCGTGGACTTCTTTCGAAGTTCC
TTACCAACCTCCATGTGGTGGCTGCACACTTGGAATTGGGTCTGGTCTCTCGGCTCTTGGAGGCCCATGCCCTCT
ATGCTTCTTCAGTCCCCAAAGAGGAACAAAAGCTCCCCGAGGCTGACGTTGCAGTGTTTCGCACCTTCCTGAGGC
AGCAGGCTTCAATCCTCAGCCAGTACCCCCGGCTCCTGCCCCAGCAGGCAGCCAACCAGCCCCTGGACTCACCTC
TTTGCCACCAAGCCTCGCTGCTCTCCCGGAGATGGCACCTCCAACACACACTACGATGGCTTAATAAACCCCGGA
CCATGAAAAATCAGCAAAGCTCCAGCCTGTCTCTGGCAGTTTCCTCATCCCCTACTGCTGTGGCCTTCTCCACCA
ATGGGCAAAGAGCAGCTGTGGGCACTGCCAATGGGACAGTTTACCTGTTGGACCTGAGAACTTGGCAGGAGGAGA
AGTCTGTGGTGAGTGGCTGTGATGGAATCTCTGCTTGTTTGTTCCTCTCCGATGATACACTCTTTCTTACTGCCT
TCGACGGGCTCCTGGAGCTCTGGGACCTGCAGCATGGTTGTCGGGTGCTGCAGACTAAGGCTCACCAGTACCAAA
TCACTGGCTGCTGCCTGAGCCCAGACTGCCGGCTGCTAGCCACCGTGTGCTTGGGAGGATGCCTAAAGCTGTGGG
ACACAGTCCGTGGGCAGCTGGCCTTCCAGCACACCTACCCCAAGTCCCTGAACTGTGTTGCCTTCCACCCAGAGG
GGCAGGTAATAGCCACAGGCAGCTGGGCTGGCAGCATCAGCTTCTTCCAGGTGGATGGGCTCAAAGTCACCAAGG
ACCTGGGGGGCACCCGGAGCCTCTATCCGTACCTTGGCCTTCAATGTGCCTGGGGGGGTTGTGGCTGTGGGCCGGC
TGGACAGTATGGTGGAGCTGTGGGCCTGGCGAGAAGGGGCACGGCTGGCTGCCTTCCCTGCCCACCATGGCTTTG
TTGCTGCTGCGCTTTTCCTGCATGCGGGTTGCCAGTTACTGACGGCTGGAGAGGATGGCAAGGTTCAGGTGTGGT
CAGGGTCTCTGGGTCGGCCCCGTGGGCACCTGGGTTCCCTTTCTCTCTCCTGCCCTCTCTGTGGCACTCAGCC
CAGATGGTGATCGGGTGGCTGTTGGATATCGAGCGGATGGCATTAGGATCTACAAAATCTCTTCAGGTTCCCAGG
GGGCTCAGGGTCAGGCACTGGATGTGGCAGTGTCCGCCCTGGCCTGGCTAAGCCCCAAGGTATTGGTGAGTGGTG
CAGAAGATGGGTCCTTGCAGGGCTGGGCACTCAAGGAATGCTCCCTTCAGTCCCTCTGGCTCCTGTCCAGATTCC
AGAAGCCTGTGCTAGGACTGGCCACTTCCCAGGAGCTCTTGGCTTCTGCCTCAGAGGATTTCACAGTGCAGCTGT
GGCCAAGGCAGCTGCTGACGCGGCCACACAAGGCAGAAGACTTTCCCTGTGGCACTGAGCTGCGGGGACATGAGG
GCCCTGTGAGCTGCTGTAGTTTCAGCACTGATGGAGGCAGCCTGGCCACCGGGGGCCGGGATCGGAGTCTCCTCT
GCTGGGACGTGAGGACACCCAAAACCCCTGTTTTGATCCACTCCTTCCCTGCCTGTCACCGTGACTGGGTCACTG
GCTGTGCCTGGACCAAAGATAACCTACTGATATCCTGCTCCAGTGATGGCTCTGTGGGGCTCTGGGACCCAGAGT
CAGGACAGCGGCTTGGTCAGTTCCTGGGTCATCAGAGTGCTGTGAGCGCTGTGGCAGCTGTGGAGGAGCACGTGG
TGTCTGTGAGCCGGGATGGGACCTTGAAAGTGTGGGACCATCAAGGCGTGGAGCTGACCAGCATCCCTGCTCACT
CAGGACCCATTAGCCACTGTGCAGCTGCCATGGAGCCCCGTGCAGCTGGACAGCCTGGGTCAGAGCTTCTGGTGG
TAACCGTCGGGCTAGATGGGGCCACACGGTTATGGCATCCACTCTTGGTGTGCCAAACCCACACCCTCCTGGGAC
ACAGCGGCCCAGTCCGTGCTGCTGCTGTTTCAGAAACCTCAGGCCTCATGCTGACCGCCTCTGAGGATGGTTCTG
TACGGCTCTGGCAGGTTCCTAAGGAAGCAGATGACACATGTATACCAAGGAGTTCTGCAGCCGTCACTGCTGTGG
CTTGGGCACCAGATGGTTCCATGGCAGTATCTGGAAATCAAGCTGGGGAACTAATCTTGTGGCAGGAAGCTAAGG
CTGTGGCCACAGCACAGGCTCCAGGCCACATTGGTGCTCTGATCTGGTCCTCGGCACACACCTTTTTTGTCCTCA
GTGCTGATGAGAAAATCAGCGAGTGGCAAGTGAAACTGCGGAAGGGTTCGGCACCCGGAAATTTGAGTCTTCACC
TGAACCGAATTCTACAGGAGGACTTAGGGGTGCTGACAAGTCTGGATTGGGCTCCTGATGGTCACTTTCTCATCT
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FIGURE 4005C

TGGCCAAAGCAGATTTGAAGTTACTTTGCATGAAGCCAGGGGATGCTCCATCTGAAATCTGGAGCAGCTATACAG
AAAATCCTATGATATTGTCCACCCACAAGGAGTATGGCATATTTGTCCTGCAGCCCAAGGATCCTGGAGTTCTTT
CTTTCTTGAGGCAAAAGGAATCAGGAGAGTTTGAAGAGAGGCTGAACTTTGATATAAACTTAGAGAATCCTAGTA
GGACCCTAATATCGATAACTCAAGCCAAACCTGAATCTGAGTCCTCATTTTTGTGTGCCAGCTCTGATGGGATCC
TATGGAACCTGGCCAAATGCAGCCCAGAAGGAGAATGGACCACAGGTAACATGTGGCAGAAAAAAGCAAACACTC
CAGAAACCCAAACTCCAGGGACAGACCCATCTACCTGCAGGGAATCTGATGCCAGCATGGATAGTGATGCCAGCA
TGGATAGTGAGCCAACACCACATCTAAAGACACGGCAGCGTAGAAAGATTCACTCGGGCTCTGTCACAGCCCTCC
ATGTGCTACCTGAGTTGCTGGTGACAGCTTCGAAGGACAGAGATGTTAAGCTATGGGAGAGACCCAGTATGCAGC
TGCTGGGCCTGTTCCGATGCGAAGGGTCAGTGAGCTGCCTGGAACCTTGGCTGGGCGCTAACTCCACCCTGCAGC
TTGCCGTGGGAGACGTGCAGGGCAATGTGTACTTTCTGAATTGGGAATGAAGATGTGCCACTCGGGAATAATGAT
ACCCCTTGTGCTAGAGATGCAAAGCCTGAAGACACTGGTAGCTTTTAATAATTATAAAATTAATAATTTCTTGAT
AATTATAAAAATGAAGTGTCAAAAAATCTCAAGTGTAGGCCTGCCTGTGTTCTCATGTGGATTTAGAACAGGAGG
ATATTCTATGTGTATGTATATGTACATTCTAATGTGTGTCTCTTCTTATTCAACATTAATCCTTACTAGAACCAC
AAGAAAGTGAATGAAATCTTTAGTAGGTACTCTTTTGAAACTAGGTTTTAGAATTCTTGCATCACTCGCGGGCCC
TAGGACCCTAGGATGCCATTCTTGCCAGGAGGAGGAATGAGAGTGATGTTGGCCAACATTCAATTTGAACAGAGC
ATGGAAGACCTTTCAGTTCATCGGGAAAGAATGAGGGAGGGAGAATAAGTCAGTCATGCATCAGGGCATTTAGAA
AGAGCTATGTTTCTGTCACAGAGACAGCCCTTTTCTCAGAACTACCCAGAGGAGGCCGGGCATGGTGGCTCACGC
TTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCAGATCACGAGGTCAGGAGATCAAGACCATCCTGGCTAACA
TAGTGAAACCCTGTCTCTACTAAAAAATACAAAAAGTTAGCCAGG

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FIGURE 4006

GGGGCTCCACTTTCTTTCCCTCTCCGTTTTGGTGGGCTGGTTGGAGATGAAATCCACTGAGGAGGGAAGTCCAGC
ACCCTGTGTGCCAGTCCTGAACTGGCCCATCTGTAGACCCCCTGAAAATCATATGGGCTTGGATTTGGATATTCT
CAACAGAAAGGGTTAAAGGCTGATGGTACCTAAAGCCTGGTACTTGAATTTTGATCAAGATAAGCTGCCTTAAGT
TCTCTTCATTACACAAATGATCCTAGATAATTGATAGATCCTGTGGTTCAACTGGATTTCTAGATAGAAGCTGGA
TTCATGTGATGCCAGAGGAGTAAAATTTCAAGAGACTGAAACCAGATCTGAGTTTCGCTGTTCCAGTCTGGACCT
CTTTGGAGCTGTAAATCCTGGATATACTGTAGATGAGTACTGCGTTTTTCTTTTATGGACTCTCTTCAGCTTCTG
GAGACCTCACTATCCTATT<u>ATG</u>TCTTTGTGTGAAGACATGCTGCTTTGTAATTATCGAAAGTGTCGCATCAAACT
CTCTGGCTATGCATGGGTCACTGCCTGCTCTCACATCTTCTGTGATCAGCATGGCAGTGGTGAGTTAGTCGCTC
ACCAGCTATCTGTCCTGCCTGCAACAGTACCCTTTCTGGAAAGCTAGATATTGTCCGCACAGAACTCAGTCCATC
AGAGGAATATAAAGCTATGGTATTGGCAGGACTGCGACCAGAGATCGTGTTGGACATTAGCTCCCGAGCGCTGGC
CTTCTGGACATATCAGGTACATCAGGAACGTCTCTATCAAGAATACAATTTCAGCAAGGCTGAGGGCCATCTGAA
ACAGATGGAGAAGATATATACTCAGCAAATACAAAGCAAGGATGTAGAATTGACCTCTATGAAAGGGGAGGTTAC
CTCCATGAAGAAAGTACTAGAAGAATACAAGAAAAAGTTCAGTGACATCTCTGAGAAACTTATGGAGCGCAATCG
TCAGTATCAAAAGCTCCAAGGCCTCTATGATAGCCTTAGGCTACGAAACATCACTATTGCTAACCATGAAGGCAC
CCTTGAACCATCCATGATTGCACAGTCTGGTGTTCTTGGCTTCCCATTAGGTAACAACTCCAAGTTTCCTTTGGA
TAATACACCTGTTCGAAATCGGGGCGATGGAGATGGAGATTTTCAGTTCAGACCATTTTTTGCGGGTTCTCCCAC
AGCACCTGAACCCAGCAACAGCTTTTTTAGTTTTGTCTCTCCAAGTCGTGAATTAGAGCAGCAGCAAGTTTCTAG
CAGGGCCTTCAAAGTAAAAAGAATT<u>TGA</u>GCCACGCATAGTGTCACGCACCTGTGATCCCAGCTACTTAGGAGGTT
GAGGCTGGGAGGATCACTTGAGCCCAGGAGTCTGAGGCTTTAGTGATCTAAGATCATGCCACTGCACTCCAGCCT
GGGCAACAGAGTGAGACCCTGTTTCTAAAAAAAAATAAAGATAATTTAGCTAACTTCAAAAAAAAAAAAAAAAAAA
AAC

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FIGURE 4007

MSLCEDMLLCNYRKCRIKLSGYAWVTACSHIFCDQHGSGEFSRSPAICPACNSTLSGKLDIVRTELSPSEEYKAM
VLAGLRPEIVLDISSRALAFWTYQVHQERLYQEYNFSKAEGHLKQMEKIYTQQIQSKDVELTSMKGEVTSMKKVL
EEYKKKFSDISEKLMERNRQYQKLQGLYDSLRLRNITIANHEGTLEPSMIAQSGVLGFPLGNNSKFPLDNTPVRN
RGDGDGDFQFRPFFAGSPTAPEPSNSFFSFVSPSRELEQQQVSSRAFKVKRI

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FIGURE 4008

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GAGTGGCCGGGAGATGATGGCTGATGAAGAGGAAGAAGTCAAGCCGATCTTGCAGAAATTGCAGGAACTCGTGGA
TCAGCTCTACTCATTTCGAGACTGCTATTTCGAGACACATAGTGTTGAGGATGCTGGGAGGAAGCAACAGGATGT
GCAGAAGGAGATGGAGAAAACCCTACAGCAGATGGAAGAAGTAGTGGGTTCTGTCCAGGGCAAGGCACAAGTTCT
AATGCTAACTGGGAAAGCACTAAATGTGACTCCTGACTATAGCCCTAAGGCTGAGGAGCTTCTGTCAAAGGCTGT
GAAGCTGGAGCCCGAGCTGGTGGAAGCCTGGAACCAGCTGGGTGAGGTGTACTGGAAAAAAGGGGATGTTGCAGC
TGCCCACACCTGCTTCTCAGGAGCCCTCACCCATTGCAGGAACAAAGTCTCCTTGCAAAACCTGTCAATGGTGCT
TCGTCAGCTGCGGACTGACACTGAAGATGAACATTCTCACCATGTCATGGACAGTGTCCGACAGGCTAAGTTGGC
TGTTCAGATGGATGTCCATGATGGCCGCTCCTGGTATATTCTTGGGAATTCATATCTTTCCCTTTACTTCTCTAC
·TGGCCAGAACCCTAAGATCTCCCAGCAAGCCCTCAGTGCCTATGCCCAAGCAGAGAAAGTTGACAGAAAAGCTTC
TAGCAATCCTGACCTTCATCTGAACAGGGCGACGTTGCATAAATATGAAGAGAGTTATGGGGAGGCCCTGGAGGG
CTTCTCTCGGGCTGCAGCCCTGGACCCTGCCTGGCCAGAGCCCCGGCAACGAGAGCAACAACTTCTGGAATTCCT
GGATAGATTAACCAGCCTCCTTGAGAGTAAGGGAAAGGTGAAGACCAAAAAGCTGCAGAGCATGCTGGGAAGCTT
GCGCCCAGCCCATCTAGGCCCTTGCAGTGATGGGCACTATCAGTCAGCCTCTGGGCAGAAAGTGACCCTGGAGCT
CAAGCCACTGAGTACGCTTCAGCCTGGGGTGAACAGCGGTGCCGTCATCCTGGGAAAGGTGGTATTTAGCCTCAC
CACAGAGGAGAAAGTCCCCTTTACATTGGCCTGGTAGATTCAGATGGACCTTGCTATGCAGTGATGGTGTACAA
TATAGTGCAGAGCTGGGGAGTGCTCATTGGAGACTCTGTAGCCATTCCTGAGCCCAACCTGCGGCTTCACCGAAT
TCAGCACAAAGGAAAGGACTATTCCTTTTCCAGTGTTCGAGTGGAGACGCCCCTCCTGCTAGTGGTGAATGGGAA
GCCTCAGGGATCCAGCAGCCAGGCTGTTGCCACAGTGGCATCGCGACCACAGTGTGAATGACCTTTGACTTGCAT
GCTCAACAGGGAGTGGAGGAGAGGAGACAAGGCTCTGGACAGCCGGTCCAGCCACATCCAGTGATTCAGCAGGGA
TGGGAGGAATGTTTTAAATGAAGACTTTCTCTTTCCCTGCCTGTATTACACTTCGTATCTCTTCTCTCCTCTG
TCCTCATCATGTTCCAGCTCTCTACAGGGCCACATACTCTTCTGGCATATCTCTCCTGTCTCTTCCACTGCTCTC
TATGTTTTAAGCAAAGAGCATGGAATTGGTAGAAGTCTTGGGATCTTGCCATGGGACAGAGTCCCCAAGGTTCCT
GTTGTTGCCTCCTTCCTAAGCCTCATATGTATATATCAGTTCAGTATTTATTGCTAAAGGAGGGGGCTTAATTTT
GTAATGGCTTTTATTTTTAGCAATTTTTATTTTTATTTTTGAACTTTAGGTCCTTCCTCTTCTTTGGGGCTGGAA  ··
CAGAATTAAATTTGTTTGG
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FIGURE 4009

MMADEEEEVKPILQKLQELVDQLYSFRDCYFETHSVEDAGRKQQDVQKEMEKTLQQMEEVVGSVQGKAQVLMLTG
KALNVTPDYSPKAEELLSKAVKLEPELVEAWNQLGEVYWKKGDVAAAHTCFSGALTHCRNKVSLQNLSMVLRQLR
TDTEDEHSHHVMDSVRQAKLAVQMDVHDGRSWYILGNSYLSLYFSTGQNPKISQQALSAYAQAEKVDRKASSNPD
LHLNRATLHKYEESYGEALEGFSRAAALDPAWPEPRQREQQLLEFLDRLTSLLESKGKVKTKKLQSMLGSLRPAH
LGPCSDGHYQSASGQKVTLELKPLSTLQPGVNSGAVILGKVVFSLTTEEKVPFTFGLVDSDGPCYAVMVYNIVQS
WGVLIGDSVAIPEPNLRLHRIQHKGKDYSFSSVRVETPLLLVVNGKPQGSSSQAVATVASRPQCE

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FIGURE 4010

GCTGCTCTCCTGATCATGGCTTCTCCGAGTTCTTTCACCTACTATTGCCCTCCATCTTCCTCCCCCGTCTGGTCA
GAGCCGCTGTACAGTCTGAGGCCCGAGCACGCGCGAGAGCGGTTGCAGGACGACTCGGTGGAAACAGTCACGTCC
ATAGAACAGGCAAAAGTAGAAGAAAAGATCCAAGAGGTCTTCAGTTCTTACAAGTTCAACCACCTTGTACCAAGG
CTTGTTTTGCAGAGGGAGAAGCACTTCCATTATCTGAAAAGAGGCCTTCGACAACTGACAGATGCCTATGAGTGT
CTGGATGCCAGCCGCCCATGGCTCTGCTATTGGATCCTGCACAGCTTGGAACTGCTAGATGAACCCATCCCCCAG
ATAGTGGCTACAGATGTGTGTCAGTTCCTGGAGCTGTGTCAGAGCCCAGAAGGTGGCTTTGGAGGAGGACCCGGT
CAGTATCCACACCTTGCACCCACATATGCAGCAGTCAATGCATTGTGCATCATTGGCACCGAGGAGGCCTATGAC
ATCATTAACAGAGAGAAGCTTCTTCAGTATTTGTACTCCCTGAAGCAACCTGACGGCTCCTTTCTCATGCATGTC
GGAGGTGAGGTGGATGTGAGAAGCGCATACTGTGCTGCCTCCGTAGCCTCGCTGACCAACATCATCACTCCAGAC
CTCTTTGAGGGCACTGCTGAATGGATAGCAAGGTGTCAGAACTGGGAAGGTGGCATTGGCGGGGTACCAGGGATG
GAAGCCCATGGTGGCTATACCTTCTGTGGCCTGGCCGCGCTGGTAATCCTCAAGAGGGAACGTTCCTTGAACTTG
AAGAGCTTATTACAATGGGTGACAAGCCGGCAGATGCGATTTGAAGGAGGATTTCAGGGCCGCTGCAACAAGCTG
GTGGATGGCTGCTACTCCTTCTGGCAGGCGGGGCTCCTGCCCCTGCTCCACCGCGCACTGCACGCCCAAGGTGAC
CCTGCCCTTAGCATGAGCCACTGGATGTTCCATCAGCAGGCCCTGCAGGAGTACATCCTGATGTGCTGCCAGTGC
CCTGCGGGGGGGCTTCTGGATAAACCTGGCAAGTCGCGTGATTTCTACCACACCTGCTACTGCCTGAGCGGCCTG
TCCATAGCCCAGCACTTCGGCAGCGGAGCCATGTTGCATGATGTGGTCCTGGGTGTGCCCGAAAACGCTCTGCAG
CCCACTCACCCAGTGTACAACATTGGACCAGACAAGGTGATCCAGGCCACTACATACTTTCTACAGAAGCCAGTC
CCAGGTTTTGAGGAGCTTAAGGATGAGACATCGGCAGAGCCTGCAACCGACTAGAGGACCTGGGTCCCGGCAGCT
CTTTGCTCACCCATCTCCCCAGTCAGACAAGGTTTATACGTTTCAATACATACTGCATTCTGTGCTACACAAGCC
TTAGCCTCAGTGGAGCTGTGGTTCTCTTGGTACTTTCTTGTCAAACAAAACCAATGGCTCTGGGTTTGGAGAACA
CAGTGGCTGGTTTTAAAAAATTCTTTCCACACCTGTCAAACCAAAAATCTATCAGCCCACGTGGTGTGGTTGGTGA
ACAGTGCATGCCAGGAGGAAGCAGTCCCTCCTCACCAGCTCTCCAGCCAGGACGATCACACAGAGATGAATGGCA
TCTGAGTATTACGGCATCCAGAGCCACTGCTGACTCCCACTTGCACGCCACCATTCAGTCACCAGACTGGGTGCC
CTCCGATGGGTGGAATAAGTCTGCTTCATGCCAAGGCTGGGCTTTGGGTCCCACCAAGATGAGTTCTCTGTAAGA
CTGTGGTGGAGTTGCACCAGGAGGTGCCTCTGCCTCTCGACTTGCACCCTGGTCATTTGTAAGGGAAAAGAGCTG
GAGGTGGGGAGAGAAAGATCTCCTTCAGTTGGGAGTCCTTCCACTTCAACACTGGAGAACTGAGCCTTGCATCTC
TCCAGGGTCCAAGGCCACGCTTGGTGCACAGGCAAGACTTGCTTCAGCCCCAGGTGTGGTGACTTAGACCTAGGA
AACCAATTATGAGTGGAAAGTGACCCTCTAGTTCAACTGTGCCAGAGGAAACAGCCCTCCAGTGCCCACCTGCCT
CACTCCTCCCTATCATGTACCGTGAAAACCCCCTCTGATGGCCTCAAGGCAGTGCCTGCAGGCCGAGGCCCTTCT
GGGGGTTTCTATCTTTCTTCCACCAGACTCCAAGCCCACTCTCCTCCAAGACTGTGTTGTCTTTTCTCACCAAGA
GTATTAACACTACTAAGTCTTTCACCTTAACTTATGACTCAGGATTTATTCACGTCCTGCCCACTCTAGGCTCAC
AGGAATAAAATCAAGTGCTAGACACACTGGCTGCTACTAAGGCACTAGCCTCTGTAGCTGGTGGTGGCAGCGTGG
GGTGCCGCCCAGCGTGCTGGGTCCTGGCAGTGCCTCTGCTGTGCTGCACATTGAGCCCTTTCTCAGTCAGTGGAG
TATCAAGTTGGGCCATCTGTCTACTGACCTGGCCTTCATGTAAGCAGCTGTGGGCTGCGGGCAGACAGGAGCTCA
GAGATGCAGCATGAGGCGCTTAGAAAAACCTGGCCATTTGCTGCCTCTAATTCCCTTTTGCTTTGCCATATTGGG
CTATGTATTACCTCCTTGAAATAATAAAAGAATAACATTTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4011

MASPSSFTYYCPPSSSPVWSEPLYSLRPEHARERLQDDSVETVTSIEQAKVEEKIQEVFSSYKFNHLVPRLVLQR
EKHFHYLKRGLRQLTDAYECLDASRPWLCYWILHSLELLDEPIPQIVATDVCQFLELCQSPEGGFGGGPGQYPHL
APTYAAVNALCIIGTEEAYDIINREKLLQYLYSLKQPDGSFLMHVGGEVDVRSAYCAASVASLTNIITPDLFEGT
AEWIARCQNWEGGIGGVPGMEAHGGYTFCGLAALVILKRERSLNLKSLLQWVTSRQMRFEGGFQGRCNKLVDGCY
SFWQAGLLPLLHRALHAQGDPALSMSHWMFHQQALQEYILMCCQCPAGGLLDKPGKSRDFYHTCYCLSGLSIAQH
FGSGAMLHDVVLGVPENALQPTHPVYNIGPDKVIQATTYFLQKPVPGFEELKDETSAEPATD

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FIGURE 4012

CGGCCTCTCTGCGGGGCTCACTCTGCGCTTCACC<u>ATG</u>GCTTTCATTGCCAAGTCCTTCTATGACCTCAGTGCCAT
CAGCCTGGATGGGGAGAAGGTAGATTTCAATACGTTCCGGGGCAGGGCCGTGCTGATTGAGAATGTGGCTTCGCT
CTGAGGCACAACCACCCGGGACTTCACCCAGCTCAACGAGCTGCAATGCCGCTTTCCCAGGCGCCTGGTGGTCCT
TGGCTTCCCTTGCAACCAATTTGGACATCAGGAGAACTGTCAGAATGAGGAGATCCTGAACAGTCTCAAGTATGT
CCGTCCTGGGGGTGGATACCAGCCCACCTTCACCCTTGTCCAAAAATGTGAGGTGAATGGGCAGAACGAGCATCC
TGTCTTCGCCTACCTGAAGGACAAGCTCCCCTACCCTTATGATGACCCATTTTCCCTCATGACCGATCCCAAGCT
CATCATTTGGAGCCCTGTGCGCCGCTCAGATGTGGCCTGGAACTTTGAGAAGTTCCTCATAGGGCCGGAGGGAGA
GCCCTTCCGACGCTACAGCCGCACCTTCCCAACCATCAACATTGAGCCTGACATCAAGCGCCTCCTTAAAGTTGC
CATA<u>TAG</u>ATGTGAACTGCTCAACACACAGATCTCCTACTCCATCCAGTCCTGAGGAGCCTTAGGATGCAGCATGC
CTTCAGGAGACACTGCTGGACCTCAGCATTCCCTTGATATCAGTCCCCTTCACTGCAGAGCCTTGCCTTTCCCCT
CTGCCTGTTTCCTTTTCCTCTCCCAACCCTCTGGTTGGTGATTCAACTTGGGCTCCAAGACTTGGGTAAGCTCTG
GGCCTTCACAGAATGATGGCACCTTCCTAAACCCTCATGGGTGGTGTCTGAGAGGCGTGAAGGGCCTGGAGCCAC
TCTGCTAGAAGAGACCAATAAAGGGCAGGTGTGGAAACGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4013

MAFIAKSFYDLSAISLDGEKVDFNTFRGRAVLLRMWLRSEGTTTRDFTQLNELQCRFPRRLVVLGFPCNQFGHQE
NCQNEEILNSLKYVRPGGGYQPTFTLVQKCEVNGQNEHPVFAYLKDKLPYPYDDPFSLMTDPKLIIWSPVRRSDV
AWNFEKFLIGPEGEPFRRYSRTFPTINIEPDIKRLLKVAI

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FIGURE 4014A

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GTTTGATATCTACACTCAGTATTGCAACAATTACCCCAACTCCGTGGCCGCCCTGACGGAATGCATGCGGGACAA
GCAGCAGGCCAAGTTCTTTCGGGACCGGCAGGAGCTGCTACAGCACTCGCTGCCCTTGGGCTCCTACCTGCTGAA
GCCAGTCCAGCGCATCCTCAAGTACCACCTGCTGCTCCAGGAAATTGCCAAGCATTTTGATGAAGAAGAGGATGG
CTTTGAGGTGGTGGAGGATGCCATTGACACCATGACCTGTGTGGCCTGGTACATCAACGACATGAAGAGGAGGCA
TGAGCACGCGGTCCGGCTCCAGGAGATTCAGTCACTCCTCATCAACTGGAAGGGGCCCGACCTGACCACCTACGG
GGAGCTTGTCCTGGAGGGCACATTCCGCGTGCATCGCGTGCGCAATGAAAGGACCTTTTTCCTCTTTGACAAAAC
ACTGCTTATCACCAAGAAGCGGGGCGATCACTTTGTCTACAAGGGCAACATCCCGGTAACCAGGCCCTGCCCCAT
CTCCTCTGCCATCTTCTCTCCTTCCCAAAGGATCTGGGCTCCCCTTCTTGTCTGCTTCTTGGGGCTCCAGCACCA
CCCTTCTGAGATCACCCTCCCTGCTTCCCCAGGCTGTCAACCTTGTGCTTGACTGTCCTTTCCCTCTGCCCCTAG
TGCTCCTCCCTGATGCTGATCGAAAGCACCAGAGACTCCCTGTGCTTCACTGTCACCCACTACAAGCACAGCAAG
CAGCAGTACAGCATCCAGGCCAAGACAGTGGAGGAGAAACGGAACTGGACTCACCACATCAAGAGGCTCATCCTA
GAGAACCACCATGCCACCATTCCCCAGAAGGCCAAGGAAGCCATCTTGGAAATGGATTCCTATTATCCCAATCGG
TACCGCTGCAGCCCAGAGCGGCTGAAGAAGGCTTGGTCCTCCCAGGATGAGGTGTCCACCAATGTGCGCCAGGGG
CGCCGGCAATCTGAGCCAACCAAACACCTGCTCAGGCAACTCAACGAGAAAGGTGAGTGTGTGAGGTGGCCAGCC
ATTCCCAGTGAGCGGGGGAGGAGGAGGGAGGAGGGGAAGCAGCCGACAACCTGGGGTGTGACCTGAGGGTGGAGG
ATTGTCAGAATAGTGTAGAGGGAACTCTGCCTCCATTCCCCCCAGAAGAGGGCCTCGCCCCTGGCTGGCTGAGGA
GAGGGGCTGGAGCTCTCCCCCATGCACAGGCCTCATGCCCTTTCCTCCGGAAACAATGAGAGCCGAGCAACAGGC
ACAGACCTGCGCTGCTCTGTGGCCCCTGGGCCCCTGCTCTGTCAGTCATTCTTTTGAAAGCCCAGGAGACTAGGT
GAGGGTTCTGGGAGCAGGAGCCCCCAGTGAGGACTTCCCCAGGGAGCTGTCCAGAGGTCTTTTTCCTGCTTACTG
ATCTCTTCCCCTCCCCTCCCCTGCCCCTCGCCCGTGTGCTGGGGGACCCGGTGGTGATGTCTGCAGCCCGAGCAG
CAGGAATGAAGGGAAAGGGGCGCAGGGAGTCTGAAAGCTCCAGGAGCAGCAGAAGGCCCAGTGGCCGGTCTCCAA
CCAGTACTGAGAAGCGCATGAGCTTCGAGTCCATTTCTTCCCTGCCAGAGGTTGAGCCGGACCCTGAGGCTGGGA
GTGAGCAAGAGGTATTTTCTGCTGTGGAAGGGCCCAGTGCCGAGGAGACGCCTTCAGACACAGAATCTCCAGAAG
TCCTGGAGACACAGCTTGATGCCCACCAGGGCCTTCTGGGGATGGACCCCCCAGGTGACATGGTGGACTTCGTGG
CAGCTGAGAGCACTGAGGACCTTAAGGCCCTGAGCAGCGAGGAGGAAGAAGAAATGGGAGGTGCCGCCCAGGAGC
CTGAGAGCCTTCTGCCACCCTCTGTGCTGGACCAGGCCAGCGTCATTGCGGAGCGATTTGTCAGCAGCTTCTCTC
GGCGGAGCAGCGTGGCACAGGAGGACAGCAAGTCCAGTGGCTTTGGGAGCCCGCGGCTGGTCAGCCGGAGCAGCA
GCGTGCTCAGCCTGGAGGGCAGCGAGAAGGGCCTGGCCCGGCATGGCAGTGCCACAGACTCCCTCAGCTGTCAGC
TCTCCCCAGAAGTGGACATCAGTGTGGGGGTGGCCACAGAGGACAGCCCTTCTGTCAATGGGATGGAGCCCCCAA
GCCCAGGCTGCCCAGTGGAGCCTGACCGGTCTTCCTGCAAGAAGAAGGAATCAGCACTCTCCACCCGAGACCGGC
TGTTGCTAGACAAGATTAAGAGCTATTATGAAAATGCAGAACACCATGATGCAGGCTTCAGCGTCCGTCGCCGGG
AGAGCCTCTCCTACATCCCCAAAGGACTGGTAAGAAACTCCATCTCCAGGTTCAACAGCCTTCCCCGGCCAGACC
CAGAGCCAGTACCTCCAGTGGGGAGCAAGAGACAGGTGGGCTCCCGGCCGACTTCGTGGGCCCTGTTTGAGCTCC
CAGGACCAAGCCAGGCAGTCAAAGGGGACCCACCTCCCATCTCAGATGCTGAGTTCCGCCCATCTTCAGAAATTG
TGAAGATCTGGGAGGGAATGGAGTCTTCCGGAGGGAGCCCTGGGAAGGGGCCAGGCCAGGGCCAGGCCAATGGCT
TTGACCTGCATGAGCCACTCTTCATCCTGGAGGAGCATGAGCTGGGAGCCATCACAGAGGAGTCGGCCACTGCCT
CCCCGGAAAGCTCCTCTCCCACTGAGGGGCGCAGCCCGGCCCACCTGGCCCGGGAGCTGAAAGAGCTGGTGAAGG
AGCTGAGCAGCAGTACCCAGGGGGAGCTGGTGGCCCCACTGCACCCCCGCATCGTGCAGCTCTCCCACGTAATGG
ACAGCCACGTGAGCGAGCGCGTCAAGAACAAGGTCTACCAGCTGGCCCGCCAGTACAGCCTCCGGATCAAGAGCA
ACAAGCCAGTGATGGCCAGGCCACCACTGCAGTGGGAAAAGGTGGCCCCTGAGAGGGATGGGAAGAGCCCCACTG
TGCCCTGTCTACAGGAAGAGGCTGGAGAGCCATTAGGTGGCAAAGGTAAGAGGAAGCCGGTGCTGTCTCTATTTG
ACTATGAGCAGCTGATGGCCCAGGAGCACAGCCCTCCCAAGCCCTCCTCGGCTGGGGAGATGTCACCACAGCGTT
TCTTCTTCAACCCGTCTGCTGTCAGCCAGAGGACCACCTCGCCTGGGGGCGGCCCTCCGCCCGGAGCCCCCTCA
GCCCCACAGAGACCTTCAGCTGGCCCGACGTCCGTGAGCTCTGCTCCAAGTATGCCTCCCGCGATGAGGCACGCC
GAGCAGGGGGCGGCCGGCCCCGCGGCCCACCCGTCAACAGGAGCCACTCGGTGCCGGAGAACATGGTAGAGCCAC
CTCTGTCGGGCAGGGTGGGCCGCTGCCGCAGCCTGAGCACCAAGAGGGGCCGGGGAGGCGGAGAGGCTGCCCAAT
CCCCTGGGCCTCTGCCCCAGAGCAAGCCGGATGGAGGCGAGACCCTGTATGTCACTGCAGACCTCACCCTGGAGG
ACAACCGGCGGGTGATTGTCATGGAGAAGGGACCCCTTCCCAGCCCCACTGCAGGGCTGGAGGAGAGCAGTGGCC
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FIGURE 4014B

AGGGACCAAGCTCACCGGTGGCCCTGCTGGGGCAGGTTCAGGACTTCCAGCAGTCTGCAGAGTGCCAGCCGAAGG
AAGAGGGTTCCAGGGACCCGGCAGACCCGAGCCAGCAGGGCAGAGTGAGAAACCTTAGAGAGAAGTTCCAGGCCT
TGAACTCTGTCGGTTGATGCTGACTCCTGGGGGAGGGAGGAGTCATGTTGGAGGTTGGGGAAGAACCTGGGCATC
CTTCCCCTCAAGCCTGGGCTCATGGAGCCCCTGCCCAGGGCCCTCAGGTGGGCGGAAAGTCCATCCCCTCCGCCC
TTCAGGAAGGATGCTCCCGTGTGCAGGGGTCTCCTGCCTGTGCCATCCACTGGGGCTCGAGACAATTTCCCACTC
ACCTGTGAGGCCGGTGTGGCTGCTTCCCTTGTAAATAGTTGTTCTCTGGTAAGAAGCCAAATATTTAAGCTCACT
TCTTCCCAGAGAGAGGAAGCTCTGCTCAGGCCTCCAGCGTTGGCTGGCCATGGCCACAGCCAGATGGAGGAGCCC
ATCCCCAGGAGACTCAGGCAGTGGCCTGGAGAGGCTTTGTTCTGTAACGGTGCCTTTTCTTAGGGTCCAGGCAGG
AATGAAGCCAATAATTTATTGCTTTCCATTCTGTGGTATGATGTGCGTGTGCGTGAGTGTGTGGCCCCTGTTTAT
TCCCCTCCTGTCAAGAATGAAGTGGATTCAGTTCAGGTACTTTTGAGGGTTGTTGTGCTGACCCTGTGGTTGTCG
CTGATGTACACACATTTCATTATTTGCCAATGGTGCAATAACCACTGCTGACCAACCCA

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FIGURE 4015

MGKGRRESESSRSSRRPSGRSPTSTEKRMSFESISSLPEVEPDPEAGSEQEVFSAVEGPSAEETPSDTESPEVLE
TQLDAHQGLLGMDPPGDMVDFVAAESTEDLKALSSEEEEEMGGAAQEPESLLPPSVLDQASVIAERFVSSFSRRS
SVAQEDSKSSGFGSPRLVSRSSSVLSLEGSEKGLARHGSATDSLSCQLSPEVDISVGVATEDSPSVNGMEPPSPG
CPVEPDRSSCKKKESALSTRDRLLLDKIKSYYENAEHHDAGFSVRRRESLSYIPKGLVRNSISRFNSLPRPDPEP
VPPVGSKRQVGSRPTSWALFELPGPSQAVKGDPPPISDAEFRPSSEIVKIWEGMESSGGSPGKGPGQGQANGFDL
HEPLFILEEHELGAITEESATASPESSSPTEGRSPAHLARELKELVKELSSSTQGELVAPLHPRIVQLSHVMDSH
VSERVKNKVYQLARQYSLRIKSNKPVMARPPLQWEKVAPERDGKSPTVPCLQEEAGEPLGGKGKRKPVLSLFDYE
QLMAQEHSPPKPSSAGEMSPQRFFFNPSAVSQRTTSPGGRPSARSPLSPTETFSWPDVRELCSKYASRDEARRAG
GGRPRGPPVNRSHSVPENMVEPPLSGRVGRCRSLSTKRGRGGGEAAQSPGPLPQSKPDGGETLYVTADLTLEDNR
RVIVMEKGPLPSPTAGLEESSGQGPSSPVALLGQVQDFQQSAECQPKEEGSRDPADPSQQGRVRNLREKFQALNS
VG

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FIGURE 4016A

CACGAGGCAGCACTCTCTTCGTCGCTTCGGCCAGTGTGTCGGGCTGGGCCCTGACAAGCCACCTGAGGAGAGGCT
CGGAGCCGGGCCCGGACCCCGGCGATTGCCGCCCGCTTCTCTCTAGTCTCACGAGGGGTTTCCCGCCTCGCACCC
CCACCTCTGGACTTGCCTTTCCTTCTCTTCTCCGCGTGTGGAGGGAGCCAGCGCTTAGGCCGGAGCGAGCCTGGG
GGCCGCCGCCGTGAAGACATCGCGGGGACCGATTCACC<u>ATG</u>GAGGGCGCCGGCGGCGCGAACGACAAGAAAAAG
ATAAGTTCTGAACGTCGAAAAGAAAAGTCTCGAGATGCAGCCAGATCTCGGCGAAGTAAAGAATCTGAAGTTTTT
TATGAGCTTGCTCATCAGTTGCCACTTCCACATAATGTGAGTTCGCATCTTGATAAGGCCTCTGTGATGAGGCTT
ACCATCAGCTATTTGCGTGTGAGGAAACTTCTGGATGCTGGTGATTTGGATATTGAAGATGACATGAAAGCACAG
ATGAATTGCTTTTATTTGAAAGCCTTGGATGGTTTTGTTATGGTTCTCACAGATGATGGTGACATGATTTACATT
TCTGATAATGTGAACAAATACATGGGATTAACTCAGTTTGAACTAACTGGACACAGTGTGTTTGATTTTACTCAT
CCATGTGACCATGAGGAAATGAGAGAAATGCTTACACACAGAAATGGCCTTGTGAAAAAGGGTAAAGACAAAAC
ACACAGCGAAGCTTTTTTCTCAGAATGAAGTGTACCCTAACTAGCCGAGGAAGAACTATGAACATAAAGTCTGCA
ACATGGAAGGTATTGCACTGCACAGGCCACATTCACGTATATGATACCAACAGTAACCAACCTCAGTGTGGGTAT
AAGAAACCACCTATGACCTGCTTGGTGCTGATTTGTGAACCCATTCCTCACCCATCAAATATTGAAATTCCTTTA
GATAGCAAGACTTTCCTCAGTCGACACAGCCTGGATATGAAATTTTCTTATTGTGATGAAAGAATTACCGAATTG
ATGGGATATGAGCCAGAAGAACTTTTAGGCCGCTCAATTTATGAATATTATCATGCTTTGGACTCTGATCATCTG
ACCAAAACTCATCATGATATGTTTACTAAAGGACAAGTCACCACAGGACAGTACAGGATGCTTGCCAAAAGAGGT
GGATATGTCTGGGTTGAAACTCAAGCAACTGTCATATATAACACCAAGAATTCTCAACCACAGTGCATTGTATGT
GTGAATTACGTTGTGAGTGGTATTATTCAGCACGACTTGATTTTCTCCCTTCAACAAACAGAATGTGTCCTTAAA
CCGGTTGAATCTTCAGATATGAAAATGACTCAGCTATTCACCAAAGTTGAATCAGAAGATACAAGTAGCCTCTTT
GACAAACTTAAGAAGGAACCTGATGCTTTAACTTTGCTGGCCCCAGCCGCTGGAGACACAATCATATCTTTAGAT
TTTGGCAGCAACGACACAGAAACTGATGACCAGCAACTTGAGGAAGTACCATTATATAATGATGTAATGCTCCCC
TCACCCAACGAAAAATTACAGAATATAAATTTGGCAATGTCTCCATTACCCACCGCTGAAACGCCAAAGCCACTT
CGAAGTAGTGCTGACCCTGCACTCAATCAAGAAGTTGCATTAAAATTAGAACCAAATCCAGAGTCACTGGAACTT
TCTTTTACCATGCCCCAGATTCAGGATCAGACACCTAGTCCTTCCGATGGAAGCACTAGACAAAGTTCACCTGAG
CCTAATAGTCCCAGTGAATATTGTTTTTATGTGGATAGTGATATGGTCAATGAATTCAAGTTGGAATTGGTAGAA
AAACTTTTTGCTGAAGACACAGAAGCAAAGAACCCATTTTCTACTCAGGACACAGATTTAGACTTGGAGATGTTA
GCTCCCTATATCCCAATGGATGATGACTTCCAGTTACGTTCCTTCGATCAGTTGTCACCATTAGAAAGCAGTTCC
GCAAGCCCTGAAAGCGCAAGTCCTCAAAGCACAGTTACAGTATTCCAGCAGACTCAAATACAAGAACCTACTGCT
AATGCCACCACTACCACTGCCACCACTGATGAATTAAAAACAGTGACAAAAGACCGTATGGAAGACATTAAAATA
TTGATTGCATCTCCATCTCCTACCCACATACATAAAGAAACTACTAGTGCCACATCATCACCATATAGAGATACT
CAAAGTCGGACAGCCTCACCAAACAGAGCAGGAAAAGGAGTCATAGAACAGACAGAAAAATCTCATCCAAGAAGC
CCTAACGTGTTATCTGTCGCTTTGAGTCAAAGAACTACAGTTCCTGAGGAAGAACTAAATCCAAAGATACTAGCT
TTGCAGAATGCTCAGAGAAAGCGAAAAATGGAACATGATGGTTCACTTTTTCAAGCAGTAGGAATTGGAACATTA
TTACAGCAGCCAGACGATCATGCAGCTACTACATCACTTTCTTGGAAACGTGTAAAAGGATGCAAATCTAGTGAA
CAGAATGGAATGGAGCAAAAGACAATTATTTTAATACCCTCTGATTTAGCATGTAGACTGCTGGGGCAATCAATG
GATGAAAGTGGATTACCACAGCTGACCAGTTATGATTGTGAAGTTAATGCTCCTATACAAGGCAGCAGAAACCTA
CTGCAGGGTGAAGAATTACTCAGAGCTTTGGATCAAGTTAAC<u>TGA</u>CTTTTTCTTAATTTCATTCCTTTTTTGG
ACACTGGTGGCTCACTACCTAAAGCAGTCTATTTATATTTTCTACATCTAATTTTAGAAGCCTGGCTACAATACT
GCACAAACTTGGTTAGTTCAATTTTTGATCCCCTTTCTACTTAATTTACATTAATGCTCTTTTTTAGTATGTTCT
TTAATGCTGGATCACAGACAGCTCATTTTCTCAGTTTTTTGGTATTTAAACCATTGCATTGCAGTAGCATCATTT
TAAAAAATGCACCTTTTTATTTATTTATTTTTGGCTAGGGAGTTTATCCCTTTTTCGAATTATTTTTAAGAAGAT
GCCAATATAATTTTTGTAAGAAGGCAGTAACCTTTCATCATGATCATAGGCAGTTGAAAAATTTTTACACCTTTT
TTTTCACATTTTACATAAATAATAATGCTTTGCCAGCAGTACGTGGTAGCCACAATTGCACAATATATTTTCTTA
AAAAATACCAGCAGTTACTCATGGAATATATTCTGCGTTATAAAACTAGTTTTTAAGAAGAAATTTTTTTTGGC
CTATGAAATTGTTAAACCTGGAACATGACATTGTTAATCATATAATAATGATTCTTAAATGCTGTATGGTTTATT
ATTTAAATGGGTAAAGCCATTTACATAATATAGAAAGATATGCATATATCTAGAAGGTATGTGGCATTTATTTGG
ATAAAATTCTCAATTCAGAGAAATCATCTGATGTTTCTATAGTCACTTTGCCAGCTCAAAAGAAAACAATACCCT
ATGTAGTTGTGGAAGTTTATGCTAATATTGTGTAACTGATATTAAACCTAAATGTTCTGCCTACCCTGTTGGTAT

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FIGURE 4016B

AAAGATATTTTGAGCAGACTGTAAACAAGAAAAAAAAAATCATGCATTCTTAGCAAAATTGCCTAGTATGTTAAT
TTGCTCAAAATACAATGTTTGATTTTATGCACTTTGTCGCTATTAACATCCTTTTTTTCATGTAGATTTCAATAA
TTGAGTAATTTTAGAAGCATTATTTTAGGAATATATAGTTGTCACAGTAAATATCTTGTTTTTTCTATGTACATT
GTACAAATTTTTCATTCCTTTTGCTCTTTGTGGTTGGATCTAACACTAACTGTATTGTTTTGTTACATCAAATAA
ACATCTTCTGTGGAAAAAAAAAAAAAAAAAAAAA.

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FIGURE 4017

MEGAGGANDKKKISSERRKEKSRDAARSRRSKESEVFYELAHQLPLPHNVSSHLDKASVMRLTISYLRVRKLLDA
GDLDIEDDMKAQMNCFYLKALDGFVMVLTDDGDMIYISDNVNKYMGLTQFELTGHSVFDFTHPCDHEEMREMLTH
RNGLVKKGKEQNTQRSFFLRMKCTLTSRGRTMNIKSATWKVLHCTGHIHVYDTNSNQPQCGYKKPPMTCLVLICE
PIPHPSNIEIPLDSKTFLSRHSLDMKFSYCDERITELMGYEPEELLGRSIYEYYHALDSDHLTKTHHDMFTKGQV
TTGQYRMLAKRGGYVWVETQATVIYNTKNSQPQCIVCVNYVVSGIIQHDLIFSLQQTECVLKPVESSDMKMTQLF
TKVESEDTSSLFDKLKKEPDALTLLAPAAGDTIISLDFGSNDTETDDQQLEEVPLYNDVMLPSPNEKLQNINLAM
SPLPTAETPKPLRSSADPALNQEVALKLEPNPESLELSFTMPQIQDQTPSPSDGSTRQSSPEPNSPSEYCFYVDS
DMVNEFKLELVEKLFAEDTEAKNPFSTQDTDLDLEMLAPYIPMDDDFQLRSFDQLSPLESSSASPESASPQSTVT
VFQQTQIQEPTANATTTTATTDELKTVTKDRMEDIKILIASPSPTHIHKETTSATSSPYRDTQSRTASPNRAGKG
VIEQTEKSHPRSPNVLSVALSQRTTVPEEELNPKILALQNAQRKRKMEHDGSLFQAVGIGTLLQQPDDHAATTSL
SWKRVKGCKSSEQNGMEQKTIILIPSDLACRLLGQSMDESGLPQLTSYDCEVNAPIQGSRNLLQGEELLRALDQV
N

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FIGURE 4018

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GGGAAGTGCTGTTGGAGCCGCTGTGGTTGCTGTCCGTGTAGTGAAAGCGCGTGCCTTTGTTTGTGTCCCTGGCCA
TGTGTCCCTGGCCATGGCGCTGCAGCTCTCCCGGGAGCAGGGAATCACCCTGCGTGGGAGTGCCGAAATCGTGGA
CGAGTTCTTCTCATTCGGCATCAACAGCATTTTATATCAGCGTGGCATTTATCCATCTGAAATCTTTACTCGAGT
GCAGAAATACGGACTCACCTTGCTTGTAACTACTGATCTTGAGCTCATAAAATACCTAAATAATGTGGTGGAACA
ACTAAAAGATTGGTTATACAAGTGTTCAGTTCAGAAACTGGTTGTAGTTATCTCAAATATTGAAAGTGGTGAGGT
CCTGGAAAGATGACAGTTTGATATTGAGTGTGATAAGACTGCAAAAGATGACAGTGCACCCAGAGAAAAGTCTCA
GAAAGCTATTCAGGATGAAATCCGTTCAGTCATCAGACAGATCACAGCTACAGTGACATTTCTGCCACTGTTGGA
AGTTTCTTGTTCATTTGATCTGCTGATTTACACAGACAAAGATTTGGTTGTACCTGAAAAATGGGAAGAGTCGGG
ACCACAGTTTATTACCAATTCTGAGGAAGTCTGCCTTTGTTCATTTACTACTACAATCCACAAAGTAAATAGCAT
GGTGGCCTACAAAATTCCTGTCAATGACTGAAGATGACATGAGGAAATAATGTAATTGTAATTTTGAAATGTGGT
TTTCCTGAAATCAAGTCATCTATAGTTGATATGTTTTATTTCATTGGTTAATTTATACATGGAGAAAACCAAAAT
GATACTTACTGAACTGTGTGTAATTGTTCCTTTTGTTTTTTTGGTACCTATTTGACTCACCATGGAGTTAACATC
ATGAATTTATTGTGCATTATTCAAAAGGAACCAGGAGGTTTTTTTTTTGTCAACATTGTGATGTATATTCCTTTG
AAGATAGTAACTGTAGATGGAAAAACTTGTGCTATAAAGCTAAGTGCTTTCCTAAATCAGATGTTTGGTCAAGT
AGCTTGACTCAGTATAGGTAGGGAGATATTTAATTATAAAATACAGCAAAGGAAGTCTAAATATTCAGAATCTTT
GTTAAAGTCCTGAAAGTAACTAATAATCTATAAACAATGAAATATTGCTGTGTAGCTCCTTTTGACCTTCATTTC
ATGCATAATTTTCCCTATCGAATCAGTTTCCAATTATTTGACTTTAATTTATGTAACTTGAACCTGTGAAGGGAT
GGATATTTGTACTGCTTGATGTTCTGTGATACAGAACTCTTAAAAATTTTTTTTGTGTTTTATAAAATCAAGTT
TTAAGTGA
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FIGURE 4019

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GGAGCCGCTGTGGTTGCTGTCCGTGTAGTGAAAGCGCGTGCCTTTGTTTGTGTCCCTGGCCATGTGTCCCTGGCC
ATGGCGCTGCAGCTCTCCCGGGAGCAGGGAATCACCCTGCGTGGGAGTGCCGAAATCGTGGACGAGTTCTTCTCA
TTCGGCATCAACAGCATTTTATATCAGCGTGGCATTTATCCATCTGAAATCTTTACTCGAGTGCAGAAATACGGA
CTCACCTTGCTTGTAACTACTGATCTTGAGCTCATAAAATACCTAAATAATGTGGTGGAACAACTAAAAGTGCAC
CCAGAGAAAAGTCTCAGAAAGCTATTCAGGATGAAATCCGTTCAGTCATCAGACAGATCACAGCTACAGTGACAT
TTCTGCCACTGTTGGAAGTTTCTTGTTCATTTGATCTGCTGATTTACACAGACAAAGATTGGTTGTACCTGAAA
AATGGGAAGAGTCGGGACCACAGTTTATTACCAATTCTGAGGAAGTCTGCCTTTGTTCATTTACTACTACAATCC
ACAAAGTAAATAGCATGGTGGCCTACAAAATTCCTGTCAATGACTGAAGATGACATGAGGAAATAATGTAATTGT
AATTTTGAAATGTGGTTTTCCTGAAATCAAGTCATCTATAGTTGATATGTTTTATTTCAT
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FIGURE 4020

<u>ATG</u>ATGTCTTATCTTAAGCAACCGCCTTACGCAGTCAATGGGCTGAGTCTGACCACTTCGGGTATGGACTTGCTG
CACCCCTCCGTGGGCTACCCGGGGCCCTGGGCTTCTTGTCCCGCAGCCACCCCCCGGAAACAGCGCCGGGAGAGG
ACGACGTTCACTCGGGCGCAGCTAGATGTGCTGGAAGCACTGTTTGCCAAGACCCGGTACCCAGACATCTTCATG
CGAGAGGAGGTGGCACTGAAAATCAACTTGCCCGAGTCGAGGGTGCAGGTATGGTTTAAGAATCGAAGAGCTAAG
TGCCGCCAACAACAGCAACAACAGCAGAATGGAGGTCAAAACAAAGTGAGACCTGCCAAAAAGAAGACATCTCCA
GCTCGGGAAGTGAGTTCAGAGAGTGGAACAAGTGGCCAATTCACTCCCCCCTCTAGCACCTCAGTCCCGACCATT
GCCAGCAGCAGTGCTCCTGTGTCTATCTGGAGCCCAGCTTCCATCTCCCCACTGTCAGATCCCTTGTCCACCTCC
TCTTCCTGCATGCAGAGGTCCTATCCCATGACCTATACTCAGGCTTCAGGTTATAGTCAAGGATATGCTGGCTCA
ACTTCCTACTTTGGGGGCATGGACTGTGGATCATATTTGACCCCTATGCATCACCAGCTTCCCGGACCAGGGGCC
ACACTCAGTCCCATGGGTACCAATGCAGTCACCAGCCATCTCAATCAGTCCCCAGCTTCTCTTTCCACCCAGGGA
TATGGAGCTTCAAGCTTGGGTTTTAACTCAACCACTGATTGCTTGGATTATAAGGACCAAACTGCCTCCTGGAAG
CTTAACTTCAATGCTGACTGCTTGGATTATAAAGATCAGACATCCTCGTGGAAATTCCAGGTTTTG<u>TGA</u>

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FIGURE 4021

MMSYLKQPPYAVNGLSLTTSGMDLLHPSVGYPGPWASCPAATPRKQRRERTTFTRAQLDVLEALFAKTRYPDIFM
REEVALKINLPESRVQVWFKNRRAKCRQQQQQQQNGGQNKVRPAKKKTSPAREVSSESGTSGQFTPPSSTSVPTI
ASSSAPVSIWSPASISPLSDPLSTSSSCMQRSYPMTYTQASGYSQGYAGSTSYFGGMDCGSYLTPMHHQLPGPGA
TLSPMGTNAVTSHLNQSPASLSTQGYGASSLGFNSTTDCLDYKDQTASWKLNFNADCLDYKDQTSSWKFQVL

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FIGURE 4022

CCAGCCAACGAGCGGAAA**ATG**GCAGACAATTTTTCGCTCCATGATGCGTTATCTGGGTCTGGAAACCCAAACCCT
CAAGGATGGCCTGGCGCATGGGGGAACCAGCCTGCTGGGGCAGGGGGCTACCCAGGGGCTTCCTATCCTGGGGCC
TACCCCGGGCAGGCACCCCCAGGGGCTTATCCTGGACAGGCACCTCCAGGCGCCTACCATGGAGCACCTGGAGCT
TATCCCGGAGCACCTGCACCTGGAGTCTACCCAGGGCCACCCAGCGGCCCTGGGGCCTACCCATCTTCTGGACAG
CCAAGTGCCCCCGGAGCCTACCCTGCCACTGGCCCCTATGGCGCCCCTGCTGGGCCACTGATTGTGCCTTATAAC
CTGCCTTTGCCTGGGGGAGTGGTGCCTCGCATGCTGATAACAATTCTGGGCACGGTGAAGCCCAATGCAAACAGA
ATTGCTTTAGATTTCCAAAGAGGGAATGATGTTGCCTTCCACTTTAACCCACGCTTCAATGAGAACAACAGGAGA
GTCATTGTTTGCAATACAAAGCTGGATAATAACTGGGGAAGGGAAGAAAGACAGTCGGTTTTCCCATTTGAAAGT
GGGAAACCATTCAAAATACAAGTACTGGTTGAACCTGACCACTTCAAGGTTGCAGTGAATGATGCTCACTTGTTG
CAGTACAATCATCGGGTTAAAAAAACTCAATGAAATCAGCAAACTGGGAATTTCTGGTGACATAGACCTCACCAGT
GCTTCATATACCATGATA**TAA**TCTGAAAGGGGCAGATTAAAAAAAAAAAAAAAAGAATCTAAACCTTACATGTGTA
AAGGTTTCATGTTCACTGTGAGTGAAAATTTTTACATTCATCAATATCCCTCTTGTAAGTCATCTACTTAATAAA
TATTACAGTGAAAG

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FIGURE 4023

MADNFSLHDALSGSGNPNPQGWPGAWGNQPAGAGGYPGASYPGAYPGQAPPGAYPGQAPPGAYHGAPGAYPGAPA
PGVYPGPPSGPGAYPSSGQPSAPGAYPATGPYGAPAGPLIVPYNLPLPGGVVPRMLITILGTVKPNANRIALDFQ
RGNDVAFHFNPRFNENNRRVIVCNTKLDNNWGREERQSVFPFESGKPFKIQVLVEPDHFKVAVNDAHLLQYNHRV
KKLNEISKLGISGDIDLTSASYTMI

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FIGURE 4024

CTGCGCCGCCTTTCTCCGCTGGCAACGGCGCCGCTCCCCGCTCCTCCTCCCCAGCCATGGCGTTCACGTTCGCGG
CCTTCTGCTACATGCTGGCGCTGCTGCTCACTGCCGCGCTCATCTTCTTCGCCATTTGGCACATTATAGCATTTG
ATGAGCTGAAGACTGATTACAAGAATCCTATAGACCAGTGTAATACCCTGAATCCCCTTGTACTCCCAGAGTACC
TCATCCACGCTTTCTTCTGTGTCATGTTTCTTTGTGCAGCAGAGTGGCTTACACTGGGTCTCAATATGCCCCTCT
TGGCATATCATATTTGGAGGTATATGAGTAGACCAGTGATGAGTGGCCCAGGACTCTATGACCCTACAACCATCA
TGAATGCAGATATTCTAGCATATTGTCAGAAGGAAGGATGGTGCAAATTAGCTTTTTATCTTCTAGCATTTTTTT
ACTACCTATATGGCATGATCTATGTTTTGGTGAGCTCTTAGAACAACACACAGAAGAATTGGTCCAGTTAAGTGC
ATGCAAAAAGCCACCAAATGAAGGGATTCTATCCAGCAAGATCCTGTCCAAGAGTAGCCTGTGGAATCTGATCAG
TTACTTTAAAAAATGACTCCTTATTTTTTAAATGTTTCCACATTTTTGCTTGTGGAAAGACTGTTTTCATATGTT
ATACTCAGATAAAGATTTTAAATGGTATTACGTATAAATTAATATAAAATGATTACCTCTGGTGTTGACAGGTTT
GAACTTGCACTTCTTAAGGAACAGCCATAATCCTCTGAATGATGCATTAATTACTGACTGTCCTAGTACATTGGA
AGCTTTTGTTTATAGGAACTTGTAGGGCTCATTTTGGTTTCATTGAAACAGTATCTAATTATAAATTAGCTGTAG
ATATCAGGTGCTTCTGATGAAGTGAAAATGTATATCTGACTAGTGGGAAACTTCATGGGTTTCCTCATCTGTCAT
GTCGATGATTATATATGGATACATTTACAAAAATAAAAAGCGGGAATTTTCCCTTCGCTTGAATATTATCCCTGT
ATATTGCATGAATGAGAGATTTCCCATATTTCCATCAGAGTAATAAATATACTTGCTTTAATTCTTAAGCATAAG
TAAACATGATATAAAAATATATGCTGAATTACTTGTGAAGAATGCATTTAAAGCTATTTTAAATGTGTTTTTATT
TGTAAGACATTACTTATTAAGAAATTGGTTATTATGCTTACTGTTCTAATCTGGTGGTAAAGGTATTCTTAAGAA
TTTGCAGGTACTACAGATTTTCAAAACTGAATGAGAGAAAATTGTATAACCATCCTGCTGTTCCTTTAGTGCAAT
ACAATAAAACTCTGAAATTAAG

FIGURE 4025A

<u>ATG</u>GAGGGGGGACCGGGTGGCCGGGCGGCCGGTGCTGTCGTCGTTACCAGTGCTACTGCTGCTGCCGTTGCTAATG
TTGCGGGCCGCGGCGCTGCACCCAGACGAGCTCTTCCCACACGGGGAGTCGTGGGGGGGACCAGCTCCTGCAGGAA
GGCGACGACGAAAGCTCAGCCGTGGTGAAGCTGGCGAATCCCCTGCACTTCTACGAAGCCCGATTCAGCAACCTC
TACGTGGGCACCAACGGCATCATCTCCACTCAGGACTTCCCCAGGGAAACGCAGTATGTGGACTATGATTTCCCC
ACCGACTTCCCGGCCATCGCCCCTTTTCTGGCGGACATCGACACGAGCCACGGCAGAGGCCGAGTCCTGTACCGA
GAGGACACCTCCCCCGCAGTGCTGGGCCTGGCCGCCCGCTATGTGCGCGCTGGCTTCCCGCGCTCTGCGCGCTTT
ACCCCCACCCACGCCTTCCTGGCCACCTGGGAGCAGGTAGGCGCTTACGAGGAGGTCAAGCGCGGGGCGCTGCCC
TCGGGAGAGCTGAACACTTTCCAGGCAGTTTTGGCATCTGATGGGTCTGATAGCTACGCCCTCTTTCTTTATCCT
GCCAACGGCCTGCAGTTCCTTGGAACCCGCCCCAAAGAGTCTTACAATGTCCAGCTTCAGCTTCCAGCTCGGGTG
GGCTTCTGCCGAGGGGAGGCTGATGATCTGAAGTCAGAAGGACCATATTTCAGCTTGACTAGCACTGAACAGTCT
GTGAAAAATCTCTATCAACTAAGCAACCTGGGGATCCCTGGAGTGTGGGCTTTCCATATCGGCAGCACTTCCCCG
TTGGACAATGTCAGGCCAGCTGCAGTTGGAGACCTTTCCGCTGCCCACTCTTCTGTTCCCCTGGGACGTTCCTTC
AGCCATGCTACAGCCCTGGAAAGTGACTATAATGAGGACAATTTGGATTACTATGATGTGAATGAGGAGGAAGCT
GAATACCTTCCGGGTGAACCAGAGGAGGCATTGAATGGCCACAGCAGCATTGATGTTTCCTTCCAATCCAAAGTG
GATACAAAGCCTTTAGAGGAATCTTCCACCTTGGATCCTCACACCAAAGAAGGAACATCTCTGGGAGAGGTAGGG
GGCCCAGATTTAAAAGGCCAAGTTGAGCCCTGGGATGAGAGAGAGACCAGAAGCCCAGCTCCACCAGAGGTAGAC
AGAGATTCACTGGCTCCTTCCTGGGAAACCCCACCACCGTACCCCGAAAACGGAAGCATCCAGCCCTACCCAGAT
GGAGGGCCAGTGCCTTCGGAAATGGATGTTCCCCCAGCTCATCCTGAAGAAGAAATTGTTCTTCGAAGTTACCCT
GCTTCAGGTCACACTACACCCTTAAGTCGAGGGACGTATGAGGTGGGACTGGAAGACAACATAGGTTCCAACACC
GAGGTCTTCACGTATAATGCTGCCAACAAGGAAACCTGTGAACACAACCACAGACAATGCTCCCGGCATGCCTTC
TGCACGGACTATGCCACTGGCTTCTGCTGCCACTGCCAATCCAAGTTTTATGGAAATGGGAAGCACTGTCTGCCT
GAAGGGGCACCTCACCGAGTGAATGGGAAAGTGAGTGGCCACCTCCACGTGGGCCATACACCCGTGCACTTCACT
GATGTGGACCTGCATGCGTATATCGTGGGCAATGATGGCAGAGCCTACACGGCCATCAGCCACATCCCACAGCCA
GCAGCCCAGGCCCTCCTCCCCCTCACACCAATTGGAGGCCTGTTTGGCTGGCTCTTTGCTTTAGAAAAAACCTGGC
TCTGAGAACGGCTTCAGCCTCGCAGGTGCTGCCTTTACCCATGACATGGAAGTTACATTCTACCCGGGAGAGGAG
ACGGTTCGTATCACTCAAAACTGCTGAGGGACTTGACCCAGAGAACTACCTGAGCATTAAGACCAACATTCAAGGC
CAGGTGCCTTACGTCTCAGCAAATTTCACAGCCCACATCTCTCCCTACAAGGAGCTGTACCACTACTCCGACTCC
ACTGTGACCTCTACAAGTTCCAGAGACTACTCTCTGACTTTTGGTGCAATCAACCAAACATGGTCCTACCGCATC
CACCAGAACATCACTTACCAGGTGTGCAGGCACGCCCCCAGACACCCGTCCTTCCCCACCACCCAGCAGCTGAAC
GTGGACCGGGTCTTTGCCTTGTATAATGACGAAGAAAGAGTGCTTAGATTTGCTGTGACCAATCAAATTGGCCCG
GTCAAAGAGGATTCAGACCCCACTCCGGGGAATCCTTGCTATGATGGGAGCCACATGTGTGACACAACAGCACGG
TGCCATCCAGGGACAGGTGTAGATTACACCTGTGAGTGCGCATCTGGGTACCAGGGAGATGGACGGAACTGTGTG
GATGAAAATGAATGTGCAACTGGCTTTCATCGCTGTGGCCCCAACTCTGTATGTATCAACTTGCCTGGAAGCTAC
AGGTGTGAGTGCCGGAGTGGTTATGAGTTTGCAGATGACCGGCATACTTGCATCTTGATCACCCCACCTGCCAAC
CCCTGTGAGGATGGCAGTCATACCTGTGCTCCTGCTGGGCAGGCCCGGTGTGTTCACCATGGAGGCAGCACGTTC
AGCTGTGCCTGCCTGCCTGGTTATGCCGGCGATGGGCACCAGTGCACTGATGTAGATGAATGCTCAGAAAACAGA
TGTCACCCTGCAGCTACCTGCTACAATACTCCTGGTTCCTTCTCCTGCCGTTGTCAACCCGGATATTATGGGGAT
GGATTTCAGTGCATACCTGACTCCACCTCAAGCCTGACACCCTGTGAACAACAGCAGCGCCATGCCCAGGCCCAG
TATGCCTACCCTGGGGCCCGGTTCCACATCCCCCAATGCGACGAGCAGGGCAACTTCCTGCCCCTACAGTGTCAT
GGCAGCACTGGTTTCTGCTGGTGCGTGGACCCTGATGGTCATGAAGTTCCTGGTACCCAGACTCCACCTGGCTCC
ACCCCGCCTCACTGTGGACCATCACCAGAGCCCACCCAGAGGCCCCCGACCATCTGTGAGCGCTGGAGGGAAAAC
CTGCTGGAGCACTACGGTGGCACCCCCGAGATGACCAGTACGTGCCCAGTGCGATGACCTGGGCCACTTCATC
CCCCTGCAGTGCCACGGAAAGAGCGACTTCTGCTGGTGTGTGGACAAAGATGGCAGAGAGGTGCAGGGCACCCGC
TCCCAGCCAGGCACCACCCCTGCGTGTATACCCACCGTCGCTCCACCCATGGTCCGGCCCACGCCCCGGCCAGAT
GTGACCCCTCCATCTGTGGGCACCTTCCTGCTCTATACTCAGGGCCAGCAGATTGGCTACTTACCCCTCAATGGC
ACCAGGCTTCAGAAGGATGCAGCTAAGACCCTGCTGTCTCTGCATGGCTCCATAATCGTGGGAATTGATTACGAC
TGCCGGGAGAGGATGGTGTACTGGACAGATGTTGCTGGACGGACAATCAGCCGTGCCGGTCTGGAACTGGGAGCA
GAGCCTGAGACGATCGTGAATTCAGGTCTGATAAGCCCTGAAGGACTTGCCATAGACCACATCCGCAGAACAATG

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FIGURE 4025B

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TACTGGACGGACAGTGTCCTGGATAAGATAGAGAGCGCCCTGCTGGATGGCTCTGAGCGCAAGGTCCTCTTCTAC
ACAGATCTGGTGAATCCCCGTGCCATCGCTGTGGATCCAATCCGAGGCAACTTGTACTGGACAGACTGGAATAGA
GAAGCTCCTAAAATTGAAACGTCATCTTTAGATGGAGAAAACAGAAGAATTCTGATCAATACAGACATTGGATTG
CCCAATGGCTTAACCTTTGACCCTTTCTCTAAACTGCTCTGCTGGGCAGATGCAGGAACCAAAAAACTGGAGTGT
ACACTACCTGATGGAACTGGACGGCGTGTCATTCAAAACAACCTCAAGTACCCCTTCAGCATCGTAAGCTATGCA
GATCACTTCTACCACACAGACTGGAGGAGGGATGGTGTTGTATCAGTAAATAAACATAGTGGCCAGTTTACTGAT
GAGTATCTCCCAGAACAACGATCTCACCTCTACGGGATAACTGCAGTCTACCCCTACTGCCCAACAGGAAGAAAG
TAAGTACAGTAATGTAAAGGAAGACTTGGAGTTTACAATCAGAACCTGGACCCTAAAGAACAGTGACTGCAAAGG
CAAAGAAAGTAAAAAAGGAATTGGCCATTAGACGTTCCTGAGCATCCAAGATGAACATTTTGTAGTGCAAAAAGA
CTTTTGTGAAAAGCTGATACCTCAATCTTTACTACTGTATTTTTAAAAATGAAGGTTGTTATTGCAAGTTTAAAA
AGGTAACAGAATTTTAACTGTTGCTTATTAAAGCAACATCTTGTAAACATTTATCATTAATATTTAAAAGATCAA
ATTCATTCAACTAAGAATTAGAGTTTAAGACTCTAAACCTGATTTTTGCCATGGATTCCTTCTGGCCAAGAAATT
AAAGCACATGTGATCAATATAACAATATAATCCTAAACCTTGACAGTTGGAGAAGCCAATGCAGAACTGATGGGA
AAGGACCAATTATTTATAGTTTCCCAACAAAGTTCTAAGATTTTTTACCTCTGCATCAGTGCATTTCTATTTAT
ATCAAAAGGTGCTAAAATGATTCAATTTGCATTTCTGATCCTGTAGTGCCTCTATAGAAGTACCCACAGAAAGT
AAAGTATCACATTTATAAATACCAAAGATGTAACAATTTTAAAATTTTCTAGATTACTCCAATAAAGTGTTTTAA
GTTT
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FIGURE 4026

MEGDRVAGRPVLSSLPVLLLLPLLMLRAAALHPDELFPHGESWGDQLLQEGDDESSAVVKLANPLHFYEARFSNL
YVGTNGIISTQDFPRETQYVDYDFPTDFPAIAPFLADIDTSHGRGRVLYREDTSPAVLGLAARYVRAGFPRSARF
TPTHAFLATWEQVGAYEEVKRGALPSGELNTFQAVLASDGSDSYALFLYPANGLQFLGTRPKESYNVQLQLPARV
GFCRGEADDLKSEGPYFSLTSTEQSVKNLYQLSNLGIPGVWAFHIGSTSPLDNVRPAAVGDLSAAHSSVPLGRSF
SHATALESDYNEDNLDYYDVNEEEAEYLPGEPEEALNGHSSIDVSFQSKVDTKPLEESSTLDPHTKEGTSLGEVG
GPDLKGQVEPWDERETRSPAPPEVDRDSLAPSWETPPPYPENGSIQPYPDGGPVPSEMDVPPAHPEEEIVLRSYP
ASGHTTPLSRGTYEVGLEDNIGSNTEVFTYNAANKETCEHNHRQCSRHAFCTDYATGFCCHCQSKFYGNGKHCLP
EGAPHRVNGKVSGHLHVGHTPVHFTDVDLHAYIVGNDGRAYTAISHIPQPAAQALLPLTPIGGLFGWLFALEKPG
SENGFSLAGAAFTHDMEVTFYPGEETVRITQTAEGLDPENYLSIKTNIQGQVPYVSANFTAHISPYKELYHYSDS
TVTSTSSRDYSLTFGAINQTWSYRIHQNITYQVCRHAPRHPSFPTTQQLNVDRVFALYNDEERVLRFAVTNQIGP
VKEDSDPTPGNPCYDGSHMCDTTARCHPGTGVDYTCECASGYQGDGRNCVDENECATGFHRCGPNSVCINLPGSY
RCECRSGYEFADDRHTCILITPPANPCEDGSHTCAPAGQARCVHHGGSTFSCACLPGYAGDGHQCTDVDECSENR
CHPAATCYNTPGSFSCRCQPGYYGDGFQCIPDSTSSLTPCEQQQRHAQAQYAYPGARFHIPQCDEQGNFLPLQCH
GSTGFCWCVDPDGHEVPGTQTPPGSTPPHCGPSPEPTQRPPTICERWRENLLEHYGGTPRDDQYVPQCDDLGHFI
PLQCHGKSDFCWCVDKDGREVQGTRSQPGTTPACIPTVAPPMVRPTPRPDVTPPSVGTFLLYTQGQQIGYLPLNG
TRLQKDAAKTLLSLHGSIIVGIDYDCRERMVYWTDVAGRTISRAGLELGAEPETIVNSGLISPEGLAIDHIRRTM
YWTDSVLDKIESALLDGSERKVLFYTDLVNPRAIAVDPIRGNLYWTDWNREAPKIETSSLDGENRRILINTDIGL
PNGLTFDPFSKLLCWADAGTKKLECTLPDGTGRRVIQNNLKYPFSIVSYADHFYHTDWRRDGVVSVNKHSGQFTD
EYLPEQRSHLYGITAVYPYCPTGRK

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FIGURE 4027

GCGGCCACCGCTTTTAAGCCACGATTGGCGAAGGCCGCCGTCATTTCGGAGCGACTCAGCGCCTGCCCGCCCTCT
CGCCGCGTCGCCGGTGCCTGCGCCTCCCGCTCCACCTCGCTTCTTCTCTCCCGGCCGAGGCCCGGGGGACCAGAG
CGAGAAGCGGGGACC**ATG**TTCCGACGCAAGTTGACGGCTCTCGACTACCACAACCCCGCCGGCTTCAACTGCAAA
GATGAAACAGAATTTAGAAACTTCATCGTTTGGCTTGAAGACCAGAAAATCAGGCACTACAAGATTGAAGACAGA
GGGAATTTAAGAAACATCCACAGCAGCGACTGGCCCAAGTTCTTTGAAAAGTATCTCAGAGATGTTCACTGTCCT
TTCAAGATTCAAGATCGACAAGAAGCTATTCACTGGCTTCTTGGTTTAGCTGTTAGACTTGAATATGGAGATAAT
GCTGAAAAATACAAGGATTTAGTACCTGATAATTCAAAAACTGCTGACAATGCAACTAAAAATGCAGAACCATTG
ATCAATTTGGATGTAAATAATCCTGATTTTAAGGCTGGTGTGATGGCTTTGGCTAACCTGCTTCAGATTCAGCGT
CATGATGATTACCTGGTAATGCTTAAGGCAATTCGGATTTTGGTTCAGGAGCGCCTGACACAGGATGCAGTTGCT
AAGGCAAATCAAACAAAAGAGGGCTTACCTGTTGCTTTAGACAAACATATTCTTGGTTTTGACACAGGAGATGCA
GTTCTTAATGAAGCTGCTCAAATTCTGCGATTGCTGCACATAGAGGAGCTCAGAGAGCTACAGACAAAAATCAAC
GAAGCCATAGTAGCTGTTCAGGCAATTATTGCTGATCCAAAGACAGACCACAGACTGGGAAAAGTTGGAAGA**TGA**

ACACTTGAGGACTTCAGCTTCTCACCTACTTAGTACAGTTGGGAACCATACACTTCTGGCATGTTTGGAAATCAA
AATGTCACATTCTCGGGGGAGGAAGCCCAGAAAATTGGGTATGTTCTAGAGATTTACCACCATTGCTTATTGCTT
TTTTCTTTAATAAAGTTTAGGAAAGTAGAA

FIGURE 4028

MFRRKLTALDYHNPAGFNCKDETEFRNFIVWLEDQKIRHYKIEDRGNLRNIHSSDWPKFFEKYLRDVHCPFKIQD
RQEAIHWLLGLAVRLEYGDNAEKYKDLVPDNSKTADNATKNAEPLINLDVNNPDFKAGVMALANLLQIQRHDDYL
VMLKAIRILVQERLTQDAVAKANQTKEGLPVALDKHILGFDTGDAVLNEAAQILRLLHIEELRELQTKINEAIVA
VQAIIADPKTDHRLGKVGR

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FIGURE 4029

CCGCACTTCCAGCTCTCTGCGCAGCCCGCCGCGCAGCCCGCCGCCCCAGCC**ATG**GCGAAGCCCCTGACGGACCAG
GAGAAGCGGCGGCAGATCAGCATCCGCGGCATCGTGGGCGTGGAGAACGTGGCAGAGCTGAAGAAGAGTTTCAAC
CGGCACCTGCACTTCACGCTGGTCAAGGACCGCAACGTGGCCACCACCCGCGACTACTACTTCGCGCTGGCGCAC
ACGGTGCGCGACCACCTGGTGGGGCGCTGGATCCGCACGCAGCAGCACTACTACGACAAGTGCCCCAAGAGGGTA
TATTACCTCTCTCTGGAATTTTACATGGGCCGAACATTACAGAACACCATGATCAACCTCGGTCTGCAAAATGCC
TGTGATGAGGCCATTTACCAGCTTGGATTGGATATAGAAGAGTTAGAAGAAATTGAAGAAGATGCTGGACTTGGC
AATGGTGGTCTTGGGAGACTTGCTGCCTGCTTCTTGGATTCCATGGCAACCCTGGGACTTGCAGCCTATGGATAC
GGCATTCGGTATGAATATGGGATTTTCAATCAGAAGATCCGAGATGGATGGCAGGTAGAAGAAGCAGATGATTGG
CTCAGATATGGAAACCCTTGGGAGAAGTCCCGCCCAGAATTCATGCTGCCTGTGCACTTCTATGGAAAAGTAGAA
CACACCAACACCGGGACCAAGTGGATTGACACTCAAGTGGTCCTGGCTCTGCCATATGACACCCCCGTGCCCGGC
TACATGAATAACACTGTCAACACCATGCGCCTCTGGTCTGCTCGGGCACCAAATGACTTTAACCTCAGAGACTTT
AATGTTGGAGACTACATTCAGGCTGTGCTGGACCGAAACCTGGCCGAGAACATCTCCCGGGTCCTCTATCCCAAT
GACAATTTTTTTGAAGGGAAGGAGCTAAGATTGAAGCAGGAATACTTTGTGGTGGCTGCAACCTTGCAAGATATC
ATCCGCCGTTTCAAAGCCTCCAAGTTTGGCTCCACCCGTGGTGCAGGAACTGTGTTTGATGCCTTCCCGGATCAG
GTGGCCATCCAGCTGAATGATACTCACCCTGCACTCGCGATCCCTGAGCTGATGAGGATTTTTGTGGATATTGAA
AAACTGCCCTGGTCCAAGGCATGGGAGCTCACCCAGAAGACCTTCGCCTACACCAACCACACAGTGCTCCCGGAA
GCCCTGGAGCGCTGGCCCGTGGACCTGGTGGAGAAGCTGCTCCCTCGACATTTGGAAATCATTTATGAGATAAAT
CAGAAGCATTTAGATAGAATTGTGGCCTTGTTTCCTAAAGATGTGGACCGTCTGAGAAGGATGTCTCTGATAGAA
GAGGAAGGAAGCAAAAGGATCAACATGGCCCATCTCTGCATTGTCGGTTCCCATGCTGTGAATGGCGTGGCTAAA
ATCCACTCAGACATCGTGAAGACTAAAGTATTCAAGGACTTCAGTGAGCTAGAACCTGACAAGTTTCAGAATAAA
ACCAATGGGATCACTCCAAGGCGCTGGCTCCTACTCTGCAACCCAGGACTTGCAGAGCTCATAGCAGAGAAAATT
GGAGAAGACTATGTGAAAGACCTGAGCCAGCTGACGAAGCTCCACAGCTTCCTGGGTGATGATGTCTTCCTCCGG
GAACTCGCCAAGGTGAAGCAGGAGAATAAGCTGAAGTTTTCTCAGTTCCTGGAGACGGAGTACAAAGTGAAGATC
AACCCATCCTCCATGTTTGATGTCCAGGTGAAGAGGATACATGAGTACAAGCGACAGCTCTTGAACTGTCTGCAT
GTGATCACGATGTACAACCGCATTAAGAAAGACCCTAAGAAGTTATTCGTGCCAAGGACAGTTATCATTGGTGGT
AAAGCTGCCCCAGGATATCACATGGCCAAAATGATCATAAAGCTGATCACTTCAGTGGCAGATGTGGTGAACAAT
GACCCTATGGTTGGAAGCAAGTTGAAAGTCATCTTCTTGGAGAACTACAGAGTATCTCTTGCTGAAAAAGTCATT
CCAGCCACAGATCTGTCAGAGCAGATTTCCACTGCAGGCACCGAAGCCTCGGGGACAGGCAATATGAAGTTCATG
CTAAATGGGGCCCCTAACTATCGGGACCATGGATGGGGCCAATGTGGAAATGGCAGAAGAAGCTGGGGAAGAGAAC
CTGTTCATCTTTGGCATGAGGATAGATGATGTGGCTGCTTTGGACAAGAAAGGGTACGAGGCAAAAGAATACTAT
GAGGCACTTCCAGAGCTGAAGCTGGTCATTGATCAAATTGACAATGGCTTTTTTTCTCCCAAGCAGCCTGACCTC
TTCAAAGATATCATCAACATGCTATTTTATCATGACAGGTTTAAAGTCTTTGCAGACTACGAAGCCTATGTCAAG
TGTCAAGATAAAGTGAGTCAGCTGTACATGAATCCAAAGGCCTGGAACACAATGGTACTCAAAAACATAGCTGCC
TCGGGGAAATTCTCCAGTGACCGAACAATTAAAGAATATGCCCAAAACATCTGGAACGTGGAACCTTCAGATCTA
AAGATTTCTCTATCCAATGAATCTAACAAAGTCAATGGAAAT**TGA**ACTCTACAATGTCTCTAGAAAACATAGCTT
CTTACTGAACTTGAACAT

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FIGURE 4030

MAKPLTDQEKRRQISIRGIVGVENVAELKKSFNRHLHFTLVKDRNVATTRDYYFALAHTVRDHLVGRWIRTQQHY
YDKCPKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDIEELEEIEEDAGLGNGGLGRLAACFLDSMAT
LGLAAYGYGIRYEYGIFNQKIRDGWQVEEADDWLRYGNPWEKSRPEFMLPVHFYGKVEHTNTGTKWIDTQVVLAL
PYDTPVPGYMNNTVNTMRLWSARAPNDFNLRDFNVGDYIQAVLDRNLAENISRVLYPNDNFFEGKELRLKQEYFV
VAATLQDIIRRFKASKFGSTRGAGTVFDAFPDQVAIQLNDTHPALAIPELMRIFVDIEKLPWSKAWELTQKTFAY
TNHTVLPEALERWPVDLVEKLLPRHLEIIYEINQKHLDRIVALFPKDVDRLRRMSLIEEEGSKRINMAHLCIVGS
HAVNGVAKIHSDIVKTKVFKDFSELEPDKFQNKTNGITPRRWLLLCNPGLAELIAEKIGEDYVKDLSQLTKLHSF
LGDDVFLRELAKVKQENKLKFSQFLETEYKVKINPSSMFDVQVKRIHEYKRQLLNCLHVITMYNRIKKDPKKLFV
PRTVIIGGKAAPGYHMAKMIIKLITSVADVVNNDPMVGSKLKVIFLENYRVSLAEKVIPATDLSEQISTAGTEAS
GTGNMKFMLNGALTIGTMDGANVEMAEEAGEENLFIFGMRIDDVAALDKKGYEAKEYYEALPELKLVIDQIDNGF
FSPKQPDLFKDIINMLFYHDRFKVFADYEAYVKCQDKVSQLYMNPKAWNTMVLKNIAASGKFSSDRTIKEYAQNI
WNVEPSDLKISLSNESNKVNGN

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FIGURE 4031

CATGCGTGGGCCAGCTTCTTCCTTTTACCTCGTTGCACTGCTGAGAGCAAGATGGGTCACCAGCAGCTGTACTGG
AGCCACCCGCGAAAATTCGGCCAGGGTTCTCGCTCTTGTCGTGTCTGTTCAAACCGGCACGGTCTGATCCGGAAA
TATGGCCTCAATATGTGCCGCCAGTGTTTCCGTCAGTACGCGAAGGATATCGGTTTCATTAAGAAAGACCTGAGC
TGTCTTCCTTGGCACTGCCTATGGAGGTGACACCCATCTCCTCCATCATGGCCATCCTGAGACCGCTCGCGAAGC
CCAAGATCATCAAAAAGAGCACCAAGTTCACTGGGAACCAGTCAGACTGATATGTCAAAATTAAGGGTAACTGGT
GGAAACACAGAGGTATTAACAACAGGGTTCATAGAAGGTTTGAGGGCCAGATCTATGCCCAACATTGGTTATGGG
AGAAACAAAAAGACAAAGCACATACTGCCCAGTGGCTTCTGGAAGTTCCTGGTCCACAACGTTAAGGAGCTGGAA
GTACTGCTGGTGAGCAACAAATCTTACTGTGTTGAGATCACTCATGATGTTTCTTCCAAGAACTGCAAAGCCATC
TTGGAAAGAGCAGCCCAGGTGGTCATCAGAGTCACCAATGCCAATGCCAGCCTGCACAGTGCAGAAAGTGAATAG
ACAGTGAATGTGTTTGTTTTATTGGGGTTTAAATAAAACCAATAAAACTGTAAAAAC

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FIGURE 4032

GTAGCGGGAGCGGAGAGCGGACCCCAGAGAGCCCTGAGCAGCCCCACCGCCGCCGCCGGCCTAGTTACCGTCACA
CCCCGGGAGGAGCCGCAGCTGCCGCAGCCGGCCGCAGTCACCATCACCGCAACCATGAGCAGCGAGGCCGAGACC
CAGCAGCCGCCCGCCGCCCCCGCCCTCAGCGCCGCCGACACCAAGCCCGGCACTACCGGCAGCGGCGCAGGGAGC
GGTGGCCCGGGCGGCCTCACATCGGCGGCGCCTGCCGGCGGGCACAAAAAGGTCATCGCAACGAAGGTTTTGGGA
ACGGTAAAATGGTTCAATGTAAGGAACGGATATGGTTTCATCCACAGGAACGACACCAAGGAAGATGTATTTGTA
CACCACACTGCCATGAAGAAGAATAACCCCAGGAAGTACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTT
GATGTTGTTGAAGGAGAAAAGGGTGCGAAGGCAGCAAATGTTACAGGTCCTGGTGGTGTTCCAGTTCAAGGCAGT
AAATATGCAGCAGACCGTAACCATTATAGACGCTATCCACGTCCTAGGGGTCCTCCACGCAATTACCAGCAAAAT
TACCAGAATAGTGAGAGTGGGGAAAAGAACGAGGGATCGGAGAGTGCTCCCGAAGGCCAGGCCCAACAACGCCGG
CCCTACCGCAGGCGAAGGTTCCCACCTTACTACATGCGGAGACCCTATGGGCGTCGACCACAGTATTCCAACCCT
CCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAAT
ATGTATCGGGGATATAGACCACGATTCCGCAGAGGCCCTCCTCTCCAAAGACAGCCTAGAGAGGACGGCAATGAA
GAAGATAAAGAAATCAAGGAGATGAGACCCAAGGTCAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAAT
TACCGACGCCGACGCCCAGAAAACCCTAAACCACAAGATGGCAAAGAGACAAAAGCAGCCAATCCACCAGCTGAG
AATTCGTCCGCTCCCGAGGCTGAGCAGGGCGGGGCTTGAGTAAATGCCGGCTTACCATCTCTACCATCATCCGGT
TTAGTCATCCAACAAGAAGAAATAATGAAATTCCAGCAATAAGAAATGAACAAAAGATTGGAGCTGAAGACCTTA
AATGCTTGCATTTTGCCCGTTGACCAGATAAATAGATCTGCATTATCTATGCAGCATGGGGTTTTTATTATTTTT
ACCTAAAGACGTCTCTTTTGGTAATAACAAACGTGTTTTTAAAAAAGCCTGGTTTTTCTGAATACGCCTTTAA
AGG

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FIGURE 4033

AAGAATAACCCCAGGAAGTACCTTCGCAATTCCAACCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAAC
CAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACGATTCCGCAGAGGC
CCTCCTCTCCAAAGACAGCCTAGAGAGGACGGCAATGAAGAAGATAAAGAAAATCAAGGAGATGAGACCCAAGGT
CAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAATTACCGACGCCGACGCCCAGAAAACCCTAAACCACAA
GATGGCAAAGAGACAAAAGCAGCCAATCCACCAGCTGAGAATTCGTCCGCTCCCGAGGCTGAGCAGGGCGGGGCT
TGAGTAAATGCCGGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAAGAAGAAATAATGAAATTCCAG
CAATAAGAAATGAACAAAAGATTGATCTGCATTATCTATGCAGCATGGGGTTTTTATTATTTTTACCTAAAGACG
TCTCTTTTTGGTAATAACAAACGTGTTTTTT

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FIGURE 4034

CGGGAGCGGAGAGCGGACCCCAGAGAGCCCTGAGCAGCCCCACCGCCGCCGCCGGCCTAGTTACCGTCACACCCC
GGGAGGAGCCGCAGCTGCCGCAGCCGGCCGCAGTCACCATCACCGCAACCATGAGCAGCGAGGCCGAGACCCAGC
AGCGCGGCGCCTGCCGGCGGGCACAAAAAGGTCATCGCAACGAAGGTTTTGGGAACGGTAAAATGGTTCAATGTA
AGGAACGGATATGGTTTCATCCACAGGAACGACACCAAGGAAGATGTATTTGTACACCACACTGCCATGAAGAAG
AATAACCCCAGGAAGTACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAG
GGTGCGAAGGCAGCAAATGTTACAGGTCCTGGTGGTGTTCCAGTTCAAGGCAGTAAATATGCAGCAGACCGTAAC
CATTATAGACGCTATCCACGTCCTAGGGGTCCTCCACGCAATTACCAGCAAAATTACCAGAATAGTGAGAGTGGG
GAAAAGAACGAGGGATCGGAGAGTGCTCCCGAAGGCCAGGCCCAACAACGCCGGCCCTACCGCAGGCGAAGGTTC
CCACCTTACTACATGCGGAGACCCTATGGGCGTCGACCACAGTATTCCAACCCTCCTGTGCAGGGAGAAGTGATG
GAGGGTGCTGACAACCAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCA
CGATTCCGCAGAGGCCCTCCTCTCCAAAGAC

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FIGURE 4035

GCGAGGCGCGGGGAAGGCGCACCTGGGGTGGCCCTGGCGTGCGGGCGGCGACATGGAGGACGGCGTGCTCAAGGA
GGGCTTCCTGGTCAAGAGGGGGCCACATTGTCCACAACTGGAAGGCGCGATGGTTCATCCTTCGGCAGAACACGCT
GGTGTACTACAAGCTTGAGGGGGGTCGGAGAGTGACCCCTCCCAAGGGCCGGATCCTCCTGGATGGCTGCACCAT
CACCTGCCCCTGCCTGGAGTATGAAAACCGACCGCTCCTCATTAAGCTGAAGACTCAAACATCCACGGAGTACTT
CCTGGAGGCCTGTTCTCGAGAGGAGCGGGATGCCTGGGCCTTTGAGATCACCGGGGCTATTCATGCAGGGCAGCC
GGGGAAGGTCCAGCAGCTGCACAGCCTGAGAAACTCCTTCAAGCTGCCCCCGCACATCAGCCTGCATCGCATTGT
GGACAAGATGCACGATAGCAACACCGGAATCCGTTCAAGCCCCAACATGGAGCAGGGAAGCACCTATAAAAAGAC
CTTCCTCGGCTCCTCCCTGGTGGACTGGCTCATCTCCAACAGCTTCACGGCCAGCCGTCTGGAGGCGGTGACCCT
GGCCTCCATGCTCATGGAGGAGAACTTCCTCAGGCCTGTGGGTGTCCGAAGCATGGGAGCCATTCGCTCTGGGGA
TCTGGCCGAGCAGTTCCTGGATGACTCCACAGCCCTGTACACTTTTGCTGAGAGCTACAAAAAGAAGATAAGCCC
CAAGGAAGAAATTAGCCTGAGCACTGTGGAGTTAAGTGGCACGGTGGTGAAACAAGGCTACCTGGCCAAGCAGGG
ACACAAGAGGAAAAACTGGAAGGTGCGTCGCTTTGTTCTAAGGAAGGATCCAGCTTTCCTGCATTACTATGACCC
TTCCAAAGAAGAGAACAGGCCAGTGGGTGGGTTTTCTCTTCGTGGTTCACTCGTGTCTGCTCTGGAAGATAATGG
CGTTCCCACTGGGGTTAAAGGGAATGTCCAGGGAAACCTCTTCAAAGTGATTACTAAGGATGACACACACTATTA
CATTCAGGCCAGCAGCAAGGCTGAGCGAGCCGAGTGGATTGAAGCTATCAAAAAGCTAACATGACAAGGACCTGA
GGGAACCAGGATTCCTCCCTCCTACCAGATGACACAGACAAGAGTTCCTGGAGAATGGGAGTGTTAAGACTTTTG
ACTTCTTTGTAAGTTTTGTACTGCTTTGGAGAGTGAATGCTGCCAAGAGTTCCTCAGATTACAAACAGCAGTGGT
GCCATTTCCTTCCCCATCTTCATGTTACAAACCTGGAAAGGCTAGAACAGCCATTAGGCGTCAGCATCTTGACTT
TTCCCCAGCATCACAAACAGCCATTTCCTCGGGCACCAAAGTAGGTTCCCTTTGTTGGAACAATTACACTGGCCA
TGCCATAATGTTGAATAAAACTCTCTTCTTATGAGAAAAAAAAAAAAAAAAAAAA

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FIGURE 4036

MEDGVLKEGFLVKRGHIVHNWKARWFILRQNTLVYYKLEGGRRVTPPKGRILLDGCTITCPCLEYENRPLLIKLK
TQTSTEYFLEACSREERDAWAFEITGAIHAGQPGKVQQLHSLRNSFKLPPHISLHRIVDKMHDSNTGIRSSPNME
QGSTYKKTFLGSSLVDWLISNSFTASRLEAVTLASMLMEENFLRPVGVRSMGAIRSGDLAEQFLDDSTALYTFAE
SYKKKISPKEEISLSTVELSGTVVKQGYLAKQGHKRKNWKVRRFVLRKDPAFLHYYDPSKEENRPVGGFSLRGSL
VSALEDNGVPTGVKGNVQGNLFKVITKDDTHYYIQASSKAERAEWIEAIKKLT

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FIGURE 4037

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GCTGGAGCATCCCGCTCTGGTGCCGCTGCAGCCGGCAGAGATGGTTGAGCTCATGTTCCCGCTGTTGCTCCTCCT
TCTGCCCTTCCTTCTGTATATGGCTGCGCCCCAAATCAGGAAAATGCTGTCCAGTGGGGTGTGTACATCAACTGT
TCAGCTTCCTGGGAAAGTAGTTGTGGTCACAGGAGCTAATACAGGTATCGGGAAGGAGACAGCCAAAGAGCTGGC
TCAGAGAGGAGCTCGAGTATATTTAGCTTGCCGGGATGTGGAAAAGGGGGAATTGGTGGCCAAAGAGATCCAGAC
CACGACAGGGAACCAGCAGGTGTTGGTGCGGAAACTGGACCTGTCTGATACTAAGTCTATTCGAGCTTTTGCTAA
GGGCTTCTTAGCTGAGGAAAAGCACCTCCACGTTTTGATCAACAATGCAGGAGTGATGATGTGTCCGTACTCGAA
GACAGCAGATGGCTTTGAGATGCACATAGGAGTCAACCACTTGGGTCACTTCCTCCTAACCCATCTGCTGCTAGA
GAAACTAAAGGAATCAGCCCCATCAAGGATAGTAAATGTGTCTTCCCTCGCACATCACCTGGGAAGGATCCACTT
CCATAACCTGCAGGGCGAGAAATTCTACAATGCAGGCCTGGCCTACTGTCACAGCAAGCTAGCCAACATCCTCTT
CACCCAGGAACTGGCCCGGAGACTAAAAGGCTCTGGCCGTTACGACGTATTCTGTACACCCTGGCACAGTCCAATC
TGAACTGGTTCGGCACTCATCTTTCATGAGATGGATGTGGTGGCTTTTCTCCTTTTTCATCAAGACTCCTCAGCA
GGGAGCCCAGACCAGCCTGCACTGTGCCTTAACAGAAGGTCTTGAGATTCTAAGTGGGAATCATTTCAGTGACTG
TCATGTGGCATGGGTGTCTGTCCAAGCTCGTAATGAGACTATAGCAAGGCGGCTGTGGGACGTCAGTTGTGACCT
GCTGGGCCTCCCAATAGACTAACAGGCAGTGCCAGTTGGACCCAAGAGAAGACTGCAGCAGACTACACAGTACTT
CTTGTCAAAATGATTCTCCTTCAAGGTTTTCAAAACCTTTAGCACAAAGAGAGCAAAACCTTCCAGCCTTGCCTG
CTTGGTGTCCAGTTAAAACTCAGTGTACTGCCAGATTCGTCTAAATGTCTGTCATGTCCAGATTTACTTTGCTTC
TGTTACTGCCAGAGTTACTAGAGATATCATAATAGGATAAGAAGACCCTCATATGACCTGCACAGCTCATTTTCC
TTCTGAAAGAAACTACTACCTAGGAGAATCTAAGCTATAGCAGGGATGATTTATGCAAATTTGAACTAGCTTCTT
TGTTCACAATTCAGTTCCTCCCAACCAACCAGTCTTCACTTCAAGAGGGCCACACTGCAACCTCAGCTTAACATG
AATAACAAAGACTGGCTCAGGAGCAGGGCTTGCCCAGGCATGGTGGATCACCGGAGGTCAGTAGTTCAAGACCAG
CCTGGCCAACATGGTGAAACCCCACCTCTACTAAAAATTGTGTATATCTTTGTGTGTCTTCCTGTTTATGTGTGC
CAAGGGAGTATTTTCACAAAGTTCAAAACAGCCACAATAATCAGAGATGGAGCAAACCAGTGCCATCCAGTCTTT
ATGCAAATGAAATGCTGCAAAGGGAAGCAGATTCTGTATATGTTGGTAACTACCCACCAAGAGCACATGGGTAGC
AGGGAAGAAGTAAAAAAAGAGAAGGAGAATACTGGAAGATAATGCACAAAATGAAGGGACTAGTTAAGGATTAAC
TAGCCCTTTAAGGATTAACTAGTTAAGGATTAATAGCAAAAGATATTAAATATGCTAACATAGCTATGGAGGAAT
TGAGGGCAAGCACCCAGGACTGATGAGGTCTTAACAAAAACCAGTGTGGCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAATCCTAAAAACAAACAAACAAAAAAAAACAATTCTTCATTCAGAAAAATTATCTTAGGGACTGATATTGGTA
ATTATGGTCAATTTAATAATATTTTGGGGCATTTCCTTACATTGTCTTGACAAGATTAAAATGTCTGTGCCAAAA
TTTTGTATTTTATTTGGAGACTTCTTATCAAAAGTAATGCTGCCAAAGGAAGTCTAAGGAATTAGTAGTGTTCCC
ATCACTTGTTTGGAGTGTGCTATTCTAAAAGATTTTGATTTCCTGGAATGACAATTATATTTTAACTTTGGTGGG
GGAAAGAGTTATAGGACCACAGTCTTCACTTCTGATACTTGTAAATTAATCTTTTATTGCACTTGTTTTGACCAT
TAAGCTATATGTTTAGAAATGGTCATTTTACGGAAAAATTAGAAAAATTCTGATAATAGTGCAGAATAAATGAAT
TAATGTTTTACTTAATTTATATTGAACTGTCAATGACAAATAAAAATTCTTTTTGATTATTTTTTGTTTTCATTT
ACCAGAATAAAAACTAAGAATTAAAAGTTTGATTACAGTCAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 4038

MVELMFPLLLLLLPFLLYMAAPQIRKMLSSGVCTSTVQLPGKVVVVTGANTGIGKETAKELAQRGARVYLACRDV
EKGELVAKEIQTTTGNQQVLVRKLDLSDTKSIRAFAKGFLAEEKHLHVLINNAGVMMCPYSKTADGFEMHIGVNH
LGHFLLTHLLLEKLKESAPSRIVNVSSLAHHLGRIHFHNLQGEKFYNAGLAYCHSKLANILFTQELARRLKGSGV
TTYSVHPGTVQSELVRHSSFMRWMWWLFSFFIKTPQQGAQTSLHCALTEGLEILSGNHFSDCHVAWVSVQARNET
IARRLWDVSCDLLGLPID

FIGURE 4039

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GAAGCCATAGTCGGCGAGCAACGCTGGAGCATCCCGCTCTGGTGCCGCTGCAGCCGGCAGAGATGGTTGAGCTCA
TGTTCCCGCTGTTGCTCCTCCTTCTGCCCTTCCTTCTGTATATGGCTGCGCCCCAAATCAGGTCTGTGCAAATGT
ATTGCCTTCTCTTGAGAATTCTTGTTGCGGGGCGGGAGGGAAACATAGAATCCCCACCAAAGCTTTCTTGGAAAA
CTCCCCTGGGGGGGCTCCAAGATGGCGGAGCCCAGAGTTCGGTGGGTTGGAGGCGAGGTCCAGCTGTCCTGGGTG
CCAGGAGGACACCCGAGACCCCAGGCGGTGAGAAAGGGCGGCAGTCCGGGGCACACTGCTTTTCCCTGGCCTGTT
TTTCTTTTGTCTAAGCACCCCCTGATTCTGGCTCCAGGGAATCCCGAGGGTAAGGCTACCTCAAACGCTTGAGTT
TCGGACTCTTCAATGGGATATGGCCCGACGCTGTTTTCCCCTTATTCCCCACGCCTTAAACCAGCCTTCGAGGTA
CAAAGGAGCGATTCCACATTTCGCCCTCTGAAACTGATAGCAATCGTAACATCTGCGGCCCCATCCTTGCTCTCT
CGTTGCTGTTACAATCGCTTGTTCTGTGGGCGGATGTTGTAAAGGAGAAAAGTGAAAAGGAAGAGTGTTTGGTTA
TGAGCTCTATCCTGCCTTGCGAGCAGGAGCACGGGGGATCTGAGTTAGGAGCTAGGGTACTGGGGCGGTGAGGGC
TGGGAGAATGGTGGGAAGGTATTGACCAGGTGATAGATCAATCAGCCCAAGGCTGGCCAAGTGCCCCAGTGAATC
AGCAGCGGGCTGTAAAACCGGCAGCCTGCTTATTGGTTCTAAGTAAATCACCAGTGGTGACGGACCAGTGACTGA
ATAGACAGACACACTCCTTCCCCAGGTGGGCGGTCTTAGTCCCAATAGAACTTGAAGCCAGGCCAGATCACAGTC
ATTTCTTACCACAGTCACCTACTTTCCTTCTTTTATTTTTATTTTCTCTTCCTTCTCTGGTGCCCCTCTTCCAGT
TATATTTTTTCTGCCTTCTGAACACTCAGTTCTCCCACCTCTAGGCACACATGGTTTCTCACACTCAGATGAAAA
CACTGCTTTTTATCTTTTTTTCACTACAAGATCCTCTTATCCACATAGAATCTCAATGAAAAGTTGAACCAGAAC
TGAAAATAGTGCTCATACCCCAGAGGGATTTTTCTGGAAAAAAAAAAAAATATATGTGTGTATATATATATATATA
TGTGTGTGTGTGTATATATATATGTGTGTGTGTGTATATATATATATATATATATTCCAGGAGCTGTATTC
CCAACTCAGCAGGGTTATGGGAGTCGGGCCAGAGCTGGACTTTTATAGTTGTCTCTTTCATTCCTGCTGGTTAAG
GAGAAGAAAGAACTAAGTACAGGTCCTACTAAGTTGTCACTCCTGGAGCTACATACAGTAAGGGGATGTGGGAAA
CAGCCTAGAGGCTTGTTTTCTGAGGAGGGAGGTGATGGTTTGTGGGGACCATGAGTTAATCTGCCTCCCTGTCAG
CATTTTCGCACTATGCAGGTAGCTTCAATGGCTAAGAGTATGTACCTTGCAATTCCAAGTTCAATGAAAAAGGCT
GAAATGCTCTTTAAGAATGCATCTCCTGGTCAACAGATTGTTTTAACCAGAGTCCCAACATTGCCAAGAAGAGAA
TAGGCCAGTCTGAGAACCACCAATCTGTGTTTGTGCATTCATTCATTTGGAAAAGGCAATATAGTATAGTACTTA
GAAACAAGCACTCTAGGCTGGGCTTGGTGACTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCGGA
TCACCTGAGGTCAGGAGTTCGAGACCATCCTGGCCAGCGTGGTGAAACCCTGTCTCTACTAAAAATACAAAAATT
AGCTGGGCGTGGTGGCGCATGGGTGAGGGGGTGAGGGATGAGAATCGCTTGAACCTGGGAGATGGGGGTTGCAGT
GGAGGTGGAGGTTGCAGTGAGCCGAGATCACACCATTGCACTCCAGCCTGGGCAACAAGAGCAAAACTCTGTCTC
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FIGURE 4040

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CGCTGTCGCCGCCAGTAGCAGCCTTCGCCAGCAGCGCCGCGGCGGAACCGGGCGCAGGGGAGCGAGCCCGGCCCC
GCCAGCCCAGCCCAGCCCAGCCCTACTCCCTCCCCACGCCAGGGCAGCAGCCGTTGCTCAGAGAGAAGGTGGAGG
AAGAAATCCAGACCCTAGCACGCGCGCACCATCATGGACCATTATGATTCTCAGCAAACCAACGATTACATGCAG
CCAGAAGAGGACTGGGACCGGGACCTGCTCCTGGACCCGGCCTGGGAGAAGCAGCAGAGAAAGACATTCACGGCA
TGGTGTAACTCCCACCTCCGGAAGGCGGGGACACAGATCGAGAACATCGAAGAGGACTTCCGGGATGGCCTGAAG
CTCATGCTGCTGCTGGAGGTCATCTCAGGTGAACGCTTGGCCAAGCCAGAGCGAGGCAAGATGAGAGTGCACAAG
ATCTCCAACGTCAACAAGGCCCTGGATTTCATAGCCAGCAAAGGCGTCAAACTGGTGTCCATCGGAGCCGAAGAA
ATCGTGGATGGGAATGTGAAGATGACCCTGGGCATGATCTGGACCATCATCCTGCGCTTTGCCATCCAGGACATC
TCCGTGGAAGAGACTTCAGCCAAGGAAGGGCTGCTCCTGTGGTGTCAGAGAAAGACAGCCCCTTACAAAAATGTC
AACATCCAGAACTTCCACATAAGCTGGAAGGATGGCCTCGGCTTCTGTGCTTTGATCCACCGACACCGGCCCGAG
CTGATTGACTACGGGAAGCTGCGGAAGGATGATCCACTCACAAATCTGAATACGGCTTTTGACGTGGCAGAGAAG
TACCTGGACATCCCCAAGATGCTGGATGCCGAAGACATCGTTGGAACTGCCCGACCGGATGAGAAAGCCATCATG
ACTTACGTGTCTAGCTTCTACCACGCCTTCTCTGGAGCCCAGAAGGCGGAGACAGCAGCCAATCGCATCTGCAAG
GTGTTGGCCGTCAACCAGGAGAACGAGCAGCTTATGGAAGACTACGAGAAGCTGGCCAGTGATCTGTTGGAGTGG
ATCCGCCGCACAATCCCGTGGCTGGAGAACCGGGTGCCCGAGAACACCATGCATGCCATGCAACAGAAGCTGGAG
GACTTCCGGGACTACCGGCGCCTGCACAAGCCGCCCAAGGTGCAGGAGAAGTGCCAGCTGGAGATCAACTTCAAC
ACGCTGCAGACCAAGCTGCGGCTCAGCAACCGGCCTGCCTTCATGCCCTCTGAGGGCAGGATGGTCTCGGACATC
AACAATGCCTGGGGCTGCCTGGAGCAGGTGGAGAAGGGCTATGAGGAGTGGTTGCTGAATGAGATCCGGAGGCTG
GAGCGACTGGACCACCTGGCAGAGAAGTTCCGGCAGAAGGCCTCCATCCACGAGGCCTGGACTGACGGCAAAGAG
GCCATGCTGCGACAGAAGGACTATGAGACCGCCACCCTCTCGGAGATCAAGGCCCTGCTCAAGAAGCATGAGGCC
TTCGAGAGTGACCTGGCTGCCCACCAGGACCGTGTGGAGCAGATTGCCGCCATCGCACAGGAGCTCAATGAGCTG
GACTATTATGACTCACCCAGTGTCAACGCCCGTTGCCAAAAGATCTGTGACCAGTGGGACAATCTGGGGGCCCTA
ACTCAGAAGCGAAGGGAAGCTCTGGAGCGGACCGAGAAACTGCTGGAGACCATTGACCAGCTGTACTTGGAGTAT
GCCAAGCGGGCTGCACCCTTCAACAACTGGATGGAGGGGGCCATGGAGGACCTGCAGGACACCTTCATTGTGCAC
ACCATTGAGGAGATCCAGGGACTGACCACAGCCCATGAGCAGTTCAAGGCCACCCTCCCTGATGCCGACAAGGAG
CGCCTGGCCATCCTGGGCATCCACAATGAGGTGTCCAAGATTGTCCAGACCTACCACGTCAATATGGCGGGCACC
AACCCCTACACAACCATCACGCCTCAGGAGATCAATGGCAAATGGGACCACGTGCGGCAGCTGGTGCCTCGGAGG
GACCAAGCTCTGACGGAGGAGCATGCCCGACAGCAGCACAATGAGAGGCTACGCAAGCAGTTTGGAGCCCAGGCC
AATGTCATCGGGCCCTGGATCCAGACCAAGATGGAGGAGATCGGGAGGATCTCCATTGAGATGCATGGGACCCTG
GAGGACCAGCTCAGCCACCTGCGGCAGTATGAGAAGAGCATCGTCAACTACAAGCCAAAGATTGATCAGCTGGAG
GGCGACCACCAGCTCATCCAGGAGGCGCTCATCTTCGACAACAAGCACACCAACTACACCATGGAGCACATCCGT
GTGGGCTGGGAGCAGCTGCTCACCACCATCGCCAGGACCATCAATGAGGTAGAGAACCAGATCCTGACCCGGGAT
GCCAAGGGCATCAGCCAGGAGCAGATGAATGAGTTCCGGGCCTCCTTCAACCACTTTGACCGGGATCACTCCGGC
ACACTGGGTCCCGAGGAGTTCAAAGCCTGCCTCATCAGCTTGGGTTATGATATTGGCAACGACCCCCAGGGAGAA
GCAGAATTTGCCCGCATCATGAGCATTGTGGACCCCAACCGCCTGGGGGTAGTGACATTCCAGGCCTTCATTGAC
TTCATGTCCCGCGAGACAGCCGACACAGATACAGCAGACCAAGTCATGGCTTCCTTCAAGATCCTGGCTGGGGAC
AAGAACTACATTACCATGGACGAGCTGCGCCGCGAGCTGCCACCCGACCAGGCTGAGTACTGCATCGCGCGGATG
GCCCCCTACACCGGCCCCGACTCCGTGCCAGGTGCTCTGGACTACATGTCCTTCTCCACGGCGCTGTACGGCGAG
AGTGACCTCTAATCCACCCCGCCCGGCCGCCCTCGTCTTGTGCGCCGTGCCCTGCCTTGCACCTCCGCCGTCGCC
CATCTCCTGCCTGGGTTCGGTTTCAGCTCCCAGCCTCCACCCGGGTGAGCTGGGGCCCACGTGGCATCGATCCTC
CCTGCCCGCGAAGTGACAGTTTACAAAATTATTTTCTGCAAAAAAGAAAAAAAAGTTACGTTAAAAACCAAAAAA
CTACATATTTTATTATAGAAAAAGTATTTTTTCTCCACCAGACAAATGGAAAAAAAGAGGAAAGATTAACTATTT
GCACCGAAATGTCTTGTTTTGTTGCGACATAGGAAAATAACCAAGCACAAAGTTATATTCCATCCTTTTTACTGA
TTTTTTTTTCTTCTATCTGTTCCATCTGCTGTATTCATTTCTCCAATCTCATGTCCATTTTGGTGTGGGAGTCGG
GGTAGGGGGTACTCTTGTCAAAAGGCACATTGGTGCGTGTGTGTTTGCTAGCTCACTTGTCCATGAAAATATTTT
ATGATATTAAAGAAAATCTTTTG
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FIGURE 4041

MDHYDSQQTNDYMQPEEDWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDFRDGLKLMLLLEVISGE
RLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEEIVDGNVKMTLGMIWTIILRFAIQDISVEETSAKEGL
LLWCQRKTAPYKNVNIQNFHISWKDGLGFCALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAE
DIVGTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLENR
VPENTMHAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGRMVSDINNAWGCLEQVE
KGYEEWLLNEIRRLERLDHLAEKFRQKASIHEAWTDGKEAMLRQKDYETATLSEIKALLKKHEAFESDLAAHQDR
VEQIAAIAQELNELDYYDSPSVNARCQKICDQWDNLGALTQKRREALERTEKLLETIDQLYLEYAKRAAPFNNWM
EGAMEDLQDTFIVHTIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAGTNPYTTITPQEI
NGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIEMHGTLEDQLSHLRQYE
KSIVNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMNE
FRASFNHFDRDHSGTLGPEEFKACLISLGYDIGNDPQGEAEFARIMSIVDPNRLGVVTFQAFIDFMSRETADTDT
ADQVMASFKILAGDKNYITMDELRRELPPDQAEYCIARMAPYTGPDSVPGALDYMSFSTALYGESDL

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FIGURE 4042

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GCCTGCTGCCGCCTGGGCCCCGCCGAGCGGAGCTAGCGCCGCGCGCAGAGCACACGCTCGCGCTCCAGCTCCCCT
CCTGCGCGGTTCATGACTGTGTCCCCTGACCGCAGCCTCTGCGAGCCCCCGCCGCAGGACCACGGCCCGCTCCCC
GCCGCCGCGAGGGCCCCGAGCGAAGGAAGGAAGGGAGGCGCGCTGTGCGCCCCGCGGAGCCCGCGAACCCCGCTC
GCTGCCGGCTGCCCAGCCTGGCTGGCACCATGCTGCCCGCGCGCTGCGCCCGCCTGCTCACGCCCCACTTGCTGC
TGGTGTTGGTGCAGCTGTCCCCTGCTCGCGGCCACCGCACCACAGGCCCCAGGTTTCTAATAAGTGACCGTGACC
CACAGTGCAACCTCCACTGCTCCAGGACTCAACCCAAACCCATCTGTGCCTCTGATGGCAGGTCCTACGAGTCCA
TGTGTGAGTACCAGCGAGCCAAGTGCCGAGACCCGACCCTGGGCGTGGTGCATCGAGGTAGATGCAAAGATGCTG
GCCAGAGCAAGTGTCGCCTGGAGCGGGCTCAAGCCCTGGAGCAAGCCAAGAAGCCTCAGGAAGCTGTGTTTGTCC
CAGAGTGTGGCGAGGATGGCTCCTTTACCCAGGTGCAGTGCCATACTTACACTGGGTACTGCTGGTGTGTCACCC
CGGATGGGAAGCCCATCAGTGGCTCTTCTGTGCAGAATAAAACTCCTGTATGTTCAGGTTCAGTCACCGACAAGC
CCTTGAGCCAGGGTAACTCAGGAAGGAAAGATGACGGGTCTAAGCCGACACCCACGATGGAGACCCAGCCGGTGT
TCGATGGAGATGAAATCACAGCCCCAACTCTATGGATTAAACACTTGGTGATCAAGGACTCCAAACTGAACAACA
CCAACATAAGAAATTCAGAGAAAGTCTATTCGTGTGACCAGGAGAGGCAGAGTGCCCTGGAAGAGGCCCAGCAGA
ATCCCCGTGAGGGTATTGTCATCCCTGAATGTGCCCCTGGGGGACTCTATAAGCCAGTGCAATGCCACCAGTCCA
CTGGCTACTGCTGGTGTGTGCTGGTGGACACAGGGCGCCCGCTGCCTGGGACCTCCACACGCTACGTGATGCCCA
GTTGTGAGAGCGACGCCAGGGCCAAGACTACAGAGGCGGATGACCCCTTCAAGGACAGGGAGCTACCAGGCTGTC
CAGAAGGGAAGAAAATGGAGTTTATCACCAGCCTACTGGATGCTCTCACCACTGACATGGTTCAGGCCATTAACT
CAGCAGCGCCCACTGGAGGTGGGAGGTTCTCAGAGCCAGACCCCAGCCACACCCTGGAGGAGCGGGTAGTGCACT
GGTATTTCAGCCAGCTGGACAGCAATAGCAGCAACGACATTAACAAGCGGGAGATGAAGCCCTTCAAGCGCTACG
TGAAGAAGAAAGCCAAGCCCAAGAAATGTGCCCGGCGTTTCACCGACTACTGTGACCTGAACAAAGACAAGGTCA
TTTCACTGCCTGAGCTGAAGGGCTGCCTGGGTGTTAGCAAAGAAGGACGCCTCGTCTAAGGAGCAGAAAACCCAA
GGGCAGGTGGAGAGTCCAGGGAGGCAGGATGGATCACCAGCACCTAACCTTCAGCGTTGCCCATGGCCCTGCCA
CATCCCGTGTAACATAAGTGGTGCCCACCATGTTTGCACTTTTAATAACTCTTACTTGCGTGTTTTGTTTTTGGT
TTCATTTTAAAACACCAATATCTAATACCACAGTGGGAAAAGGAAAGGGAAGAAAGACTTTATTCTCTCTCTTAT
TGTAAGTTTTTGGATCTGCTACTGACAACTTTTAGAGGGTTTTGGGGGGGTGGGGGAGGGTGTTGTTGGGGCCTG
AGAAGAAAGAGATTTATATGCTGTATATAAATATATATGTAAATTGTATAGTTCTTTTGTACAGGCATTGGCATT
GCTGTTTGTTTATTTCTCTCCCTCTGCCTGCTGTGGGTGGTGGGCACTCTGGACACATAGTCCAGCTTTCTAAAA
TCCAGGACTCTATCCTGGGCCTACTAAACTTCTGTTTGGAGACTGACCCTTGTGTATAAAGACGGGAGTCCTGCA
ATTGTACTGCGGACTCCACGAGTTCTTTTCTGGTGGGAGGACTATATTGCCCCATGCCATTAGTTGTCAAAATTG
ATAAGTCACTTGGCTCTCGGCCTTGTCCAGGGAGGTTGGGCTAAGGAGAGATGGAAACTGCCCTGGGAGAGGAAG
GGAGTCCAGATCCCATGAATAGCCCACACAGGTACCGGCTCTCAGAGGGTCCGTGCATTCCTGCTCTCCGGACCC
CCAAAGGGCCCAGCATTGGTGGGTGCACCAGTATCTTAGTGACCCTCGGAGCAAATTATCCACAAAGGATTTGCA
TTACGTCACTCGAAACGTTTTCATCCATGCTTAGCATCTACTCTGTATAACGCATGAGAGGGGAGGCAAAGAAGA
AAAGGACACACGGAAGGGCCTTTAAAAAAGTAGATATTTAATATCTAAGCAGGGGAGGGGACAGGACAGAAAGCC
TGCACTGAGGGGTGCGGTGCCAACAGGGAAACTCTTCACCTCCCTGCAAACCTACCAGTGAGGCTCCCAGAGACG
CAGCTGTCTCAGTGCCCAGGGGCAGATTGGGTGTGACCTCTCCA
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FIGURE 4043

MLPARCARLLTPHLLLVLVQLSPARGHRTTGPRFLISDRDPQCNLHCSRTQPKPICASDGRSYESMCEYQRAKCR
DPTLGVVHRGRCKDAGQSKCRLERAQALEQAKKPQEAVFVPECGEDGSFTQVQCHTYTGYCWCVTPDGKPISGSS
VQNKTPVCSGSVTDKPLSQGNSGRKDDGSKPTPTMETQPVFDGDEITAPTLWIKHLVIKDSKLNNTNIRNSEKVY
SCDQERQSALEEAQQNPREGIVIPECAPGGLYKPVQCHQSTGYCWCVLVDTGRPLPGTSTRYVMPSCESDARAKT
TEADDPFKDRELPGCPEGKKMEFITSLLDALTTDMVQAINSAAPTGGGRFSEPDPSHTLEERVVHWYFSQLDSNS
SNDINKREMKPFKRYVKKKAKPKKCARRFTDYCDLNKDKVISLPELKGCLGVSKEGRLV

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FIGURE 4044

AAGATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCAGCTGTCGTGAAGAAGCAGGAGGCT
AAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCAAAAGA
GACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGGCAGAGAGCCATCCTCTATAAGCGGCTG
AAAGTGCCTCCTGCGATTAACCAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCC
CACAAGTACAGGCCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGTTGGCCCGGGCCGAGAAGAAAGCTGCTGGC
AAAGGGGACGTCCCGAAGAAGAGACCACCTGTCCTTCGAGCAGGAGTTAACACTGTCACCACCTTGGTGGAGAAC
AAGAAAGCTCAGCTGGTGGTGATTTCACACGACATGGATCCCATCGAGGGGGAAGGCAAGACTGGGACGTCTAGT
CCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAACTCAGAAGACAAAGGCGCTTTGGCTAAGCTGGT
GGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCACTGGGGTGGCAATGTCCTGGGTCC
TAAGTCTGTGGCTCGTATCGCCAAGCGCAAAAAGGCAAAGGCTAAAGAACTTGCCACTAAACTGGGTTAAATGTA
CACTGTTGAGTTTTCTGTACATAAAAATAATTAAAATAATACAAATTTTCCTT

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FIGURE 4045

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TGGGACAGGCAGCTCCGGGGTCCGCGGTTTCACATCGGAAACAAAACAGCGGCTGGTCTGGAAGGAACCTGAGCT
ACGAGCCGCGGCGGCAGCGGGGCGGCGGGGAAGCGTATACCTAATCTGGGAGCCTGCAAGTGACAACAGCCTTTG
CGGTCCTTAGACAGCTTGGCCTGGAGGAGAACACATGAAAGAAAGAACCTCAAGAGGCTTTGTTTTCTGTGAAAC
AGTATTTCTATACAGTTGCTCCAATGACAGAGTTACCTGCACCGTTGTCCTACTTCCAGAATGCACAGATGTCTG
AGGACAACCACCTGAGCAATACTGTACGTAGCCAGAATGACAATAGAGAACGGCAGGAGCACAACGACAGACGGA
GCCTTGGCCACCCTGAGCCATTATCTAATGGACGACCCCAGGGTAACTCCCGGCAGGTGGTGGAGCAAGATGAGG
AAGAAGATGAGGAGCTGACATTGAAATATGGCGCCAAGCATGTGATCATGCTCTTTGTCCCTGTGACTCTCTGCA
TGGTGGTGGTCGTGGCTACCATTAAGTCAGTCAGCTTTTATACCCGGAAGGATGGGCAGCTAATCTATACCCCAT
TCACAGAAGATACCGAGACTGTGGGCCAGAGAGCCCTGCACTCAATTCTGAATGCTGCCATCATGATCAGTGTCA
TTGTTGTCATGACTATCCTCCTGGTGGTTCTGTATAAATACAGGTGCTATAAGGTCATCCATGCCTGGCTTATTA
TATCATCTCTATTGTTGCTGTTCTTTTTTTCATTCATTTACTTGGGGGAAGTGTTTAAAACCTATAACGTTGCTG
TGGACTACATTACTGTTGCACTCCTGATCTGGAATTTTGGTGTGGTGGGAATGATTTCCATTCACTGGAAAGGTC
CACTTCGACTCCAGCAGGCATATCTCATTATGATTAGTGCCCTCATGGCCCTGGTGTTATCAAGTACCTCCCTG
AATGGACTGCGTGGCTCATCTTGGCTGTGATTTCAGTATATGATTAGTGGCTGTTTTGTGTCCGAAAGGTCCAC
TTCGTATGCTGGTTGAAACAGCTCAGGAGAGAAATGAAACGCTTTTTCCAGCTCTCATTTACTCCTCAACAATGG
TGTGGTTGGTGAATATGGCAGAAGGAGACCCGGAAGCTCAAAGGAGAGTATCCAAAAATTCCAAGTATAATGCAG
AAAGCACAGAAAGGGAGTCACAAGACACTGTTGCAGAGAATGATGATGGCGGGTTCAGTGAGGAATGGGAAGCCC
AGAGGGACAGTCATCTAGGGCCTCATCGCTCTACACCTGAGTCACGAGCTGCTGTCCAGGAACTTTCCAGCAGTA
TCCTCGCTGGTGAAGACCCAGAGGAAAGGGGAGTAAAACTTGGATTGGGAGATTTCATTTTCTACAGTGTTCTGG
TTGGTAAAGCCTCAGCAACAGCCAGTGGAGACTGGAACACAACCATAGCCTGTTTCGTAGCCATATTAATTGGTT
TGTGCCTTACATTATTACTCCTTGCCATTTTCAAGAAAGCATTGCCAGCTCTTCCAATCTCCATCACCTTTGGGC
TTGTTTTCTACTTTGCCACAGATTATCTTGTACAGCCTTTTATGGACCAATTAGCATTCCATCAATTTTATATCT
AGCATATTTGCGGTTAGAATCCCATGGATGTTCTTCTTTGACTATAACAAAATCTGGGGAGGACAAAGGTGATT
TTCCTGTGTCCACATCTAACAAAGTCAAGATTCCCGGCTGGACTTTTGCAGCTTCCTTCCAAGTCTTCCTGACCA
CCTTGCACTATTGGACTTTGGAAGGAGGTGCCTATAGAAAACGATTTTGAACATACTTCATCGCAGTGGACTGTG
TCCCTCGGTGCAGAAACTACCAGATTTGAGGGACGAGGTCAAGGAGATATGATAGGCCCGGAAGTTGCTGTGCCC
CATCAGCAGCTTGACGCGTGGTCACAGGACGATTTCACTGACACTGCGAACTCTCAGGACTACCGTTACCAAGAG
GTTAGGTGAAGTGGTTTAAACCAAACGGAACTCTTCATCTTAAACTACACGTTGAAAATCAACCCAATAATTCTG
TATTAACTGAATTCTGAACTTTTCAGGAGGTACTGTGAGGAAGAGCAGGCACCAGCAGCAGAATGGGGAATGGAG
AGGTGGGCAGGGGTTCCAGCTTCCCTTTGATTTTTTGCTGCAGACTCATCCTTTTTAAATGAGACTTGTTTTCCC
CTCTCTTTGAGTCAAGTCAAATATGTAGATTGCCTTTGGCAATTCTTCTTCTCAAGCACTGACACTCATTACCGT
CTGTGATTGCCATTTCTTCCCAAGGCCAGTCTGAACCTGAGGTTGCTTTATCCTAAAAGTTTTAACCTCAGGTTC
CAAATTCAGTAAATTTTGGAAACAGTACAGCTATTTCTCATCAATTCTCTATCATGTTGAAGTCAAATTTGGATT
TTCCACCAAATTCTGAATTTGTAGACATACTTGTACGCTCACTTGCCCCAGATGCCTCCTCTGTCCTCATTCTTC
TCTCCCACACAAGCAGTCTTTTTCTACAGCCAGTAAGGCAGCTCTGTCGTGGTAGCAGATGGTCCCATTATTCTA
GGGTCTTACTCTTTGTATGATGAAAAGAATGTGTTATGAATCGGTGCTGTCAGCCCTGCTGTCAGACCTTCTTCC
ACAGCAAATGAGATGTATGCCCAAAGACGGTAGAATTAAAGAAGAGTAAAATGGCTGTTGAAGC
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FIGURE 4046

GGCACGAGGGTAGCTTTCCAACATAAAGTGGAGGTTTCAACACAGGAGACTTTAAGCAAGTTCCAGTGTGTCTAT
ATTTGGTCTGGCTGATCGGCTGGACTCTGGCCTTCCCCGCTCACGTTAGCAGACAGCTCTGCCCTAGTGGGCGCT
TAGCCTGCGACGGCAGCCCGAGAGG**ATGT**CTAACAAGCTTCTTTCTCCCCACCCCCATTCAGTTGTTCTCAGGTC
TGAATTCAAAATGGCCTCATCTCCTGCTGTCCTTCGAGCGTCCCGGCTGTACCAATGGAGCCTGAAGAGTTCGGC
GCAGTTCCTGGGGTCTCCACAGCTGAGGCAGGTTGGTCAGATCATTAGGGTTCCTGCTCGGATGGCGGCGACGCT
GATCCTGGAGCCTGCGGGCCGCTGCTGCTGGGACGAACCGGTGCGAATCGCCGTGCGCGGCCTAGCCCCGGAGCA
GCCGGTCACGCTGCGCGCGTCCCTGCGCGACGAGAAGGGCGCGCTTTTCCAGGCCCACGCGCGCTACCGCGCCGA
CACTCTTGGCGAGCTGGACCTGGAGCGCGCGCCCGCGCTGGGCGGCAGCTTCGCGGGGCTTGAGCCCATGGGGCT
GCTCTGGGCCTTGGAGCCCGAGAAACCTTTGGTGCGGCTGGTGAAGCGCGACGTGCGAACGCCCTTGGCCGTGGA
GCTGGAGGTGCTGGATGGCCACGACCCCGACCCCGGGCGGCTGCTGTGCCAGACGCGGCACGAGCGCTACTTCCT
CCCGCCCGGGGTGCGGCGCGAGCCGGTGCGCGTGGGCCGGGTGCGAGGCACGCTCTTCCTGCCGCCAGAACCTGG
GCCCTTTCCTGGGATTGTGGACATGTTCGGAACTGGAGGTGGCCTGCTGGAGTATCGGGCTAGTCTGCTGGCTGG
GAAGGGTTTTGCTGTGATGGCTCTGGCTTATTATAACTATGAAGACCTCCCCAAGACCATGGAGACGCTCCATCT
GGAGTACTTTGAAGAAGCCATGAACTACTTGCTCAGTCATCCCGAGGTAAAAGGTCCAGGAGTTGGGCTGCTTGG
AATTTCCAAAGGGGGTGAGCTCTGCCTTTCCATGGCCTCTTTCCTGAAGGGCATCACGGCTGCTGTCGTCATCAA
CGGCTCTGTGGCCAATGTTGGGGGGAACCTTACGCTACAAGGGCGAGACCCTGCCCCCTGTGGGCGTCAACAGAAA
TCGCATCAAGGTGACCAAAGATGGCTATGCAGACATTGTGGATGTCCTGAACAGCCCTTTGGAAGGACCTGACCA
GAAGAGCTTCATTCCTGTGGAAAGGGCAGAGAGCACCTTCCTGTTCCTGGTAGGTCAGGATGACCACAACTGGAA
GAGTGAGTTCTATGCTAATGAGGCCTGTAAACGCTTGCAGGCCCATGGGAGGAGAAAGCCCCAGATCATCTGTTA
CCCAGAGACAGGGCACTATATTGAGCCTCCTTACTTCCCCCTGTGTCGGGCTTCCCTGCATGCCTTGGTGGGCAG
TCCTATTATCTGGGGAGGGGAGCCCAGGGCTCATGTCATGGCTCAGGTGGATGCTTGGAAACAACTCCAGACTTT
CTTCCACAAACACTTGGGTGGCCACGAGGGGACAATCCCATCAAAAGTG**TAA**ATTTTATTTGATCATGTGGCCTC
TCTGTTGCTAATCTCTCCTGGAAACATCTGCCACATTTAGTGTGTGTATGTGTATTCATTCTTTTGTTTTTAATA
ACTAAAGTTTTTTCCCCTCATTATTAAAATGAATTTACCAGTAAAAAAAAAAAAAAAAAA

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FIGURE 4047

MSNKLLSPHPHSVVLRSEFKMASSPAVLRASRLYQWSLKSSAQFLGSPQLRQVGQIIRVPARMAATLILEPAGRC
CWDEPVRIAVRGLAPEQPVTLRASLRDEKGALFQAHARYRADTLGELDLERAPALGGSFAGLEPMGLLWALEPEK
PLVRLVKRDVRTPLAVELEVLDGHDPDPGRLLCQTRHERYFLPPGVRREPVRVGRVRGTLFLPPEPGPFPGIVDM
FGTGGGLLEYRASLLAGKGFAVMALAYYNYEDLPKTMETLHLEYFEEAMNYLLSHPEVKGPGVGLLGISKGGELC
LSMASFLKGITAAVVINGSVANVGGTLRYKGETLPPVGVNRNRIKVTKDGYADIVDVLNSPLEGPDQKSFIPVER
AESTFLFLVGQDDHNWKSEFYANEACKRLQAHGRRKPQIICYPETGHYIEPPYFPLCRASLHALVGSPIIWGGEP
RAHVMAQVDAWKQLQTFFHKHLGGHEGTIPSKV

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FIGURE 4048

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GGCACGAGGACAGGTCGCCTGACTGGGCTCCTCCCCGGGCCCGCCCCGACAGGTTTGTCTTGTGACCGCGGGCGG
CCGCTGCTTCTTTCCCGAGCTTGGAACTTCGTTATCCGCGATGCGTTTCCTGGCAGCTACATTCCTGCTCCTGGC
GCTCAGCACCGCTGCCCAGGCCGAACCGGTGCAGTTCAAGGACTGCGGTTCTGTGGATGGAGTTATAAAGGAAGT
GAATGTGAGCCCATGCCCCACCCAACCCTGCCAGCTGAGCAAAGGACAGTCTTACAGCGTCAATGTCACCTTCAC
CAGCAATATTCAGTCTAAAAGCAGCAAGGCCGTGGTGCATGGCATCCTGATGGGCGTCCCAGTTCCCTTTCCCAT
TCCTGAGCCTGATGGTTGTAAGAGTGGAATTAACTGCCCTATCCAAAAAGACAAGACCTATAGCTACCTGAATAA
ACTACCAGTGAAAAGCGAATATCCCTCTATAAAACTGGTGGTGGAGTGGCAACTTCAGGATGACAAAAACCAAAG
TCTCTTCTGCTGGGAAATCCCAGTACAGATCGTTTCTCATCTCTAAGTGCCTCATTGAGTTCGGTGCATCTGGCC
AATGAGTCTGCTGAGACTCTTGACAGCACCTCCAGCTCTGCTGCTTCAACAACAGTGACTTGCTCTCCAATGGTA
TCCAGTGATTCGTTGAAGAGGAGGTGCTCTGTAGCAGAAACTGAGCTCCGGGTGGCTGGTTCTCAGTGGTTGTCT
CATGTCTCTTTTTCTGTCTTAGGTGGTTTCATTAAATGCAGCACTTGGTTAGCAGATGTTTAATTTTTTTTTTTAA
CAACATTAACTTGTGGCCTCTTTCTACACCTGGAAATTTACTCTTGAATAAATAAAAACTCGTTTGTCTTGTCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 4049

MRFLAATFLLLALSTAAQAEPVQFKDCGSVDGVIKEVNVSPCPTQPCQLSKGQSYSVNVTFTSNIQSKSSKAVVH
GILMGVPVPFPIPEPDGCKSGINCPIQKDKTYSYLNKLPVKSEYPSIKLVVEWQLQDDKNQSLFCWEIPVQIVSH
L

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FIGURE 4050A

GCTACACCTCCTCCAGGAATACCTCCCCCTGGAGTTCCACAAGGGATACCTCCTCAGTTAACAGCAGCCCCAGTT
CCACCAGCCTCCAGTTCACAGAGCTCGCAAGTTCCAGAGAAACCTAGACCAGCACTGCTTCCTACTCCTGTGTCT
TTTGGTTCTGCCCCACCGACAACTTACCATCCTCCGTTGCAATCAGCTGGTCCATCAGAACAAGTGAATTCAAAA
GCTCCTTTGAGCAAGTCTGCTCTGCCATACAGTTCATTCTCATCTGATCAAGGACTTGGGGAGTCTTCAGCTGCT
CCATCTCAGCCAATCACTGCAGTGAAGGAC*ATG*CCAGTGAGATCAGGTGGCCTGCTTCCAGATCCTCCTAGAAGT
AGTTACTTGGAAAGTCCAAGAGGCCCAAGATTTGATGGTCCTCGAAGATTTGAGGATTTAGGGTCAAGGTGTGAA
GGACCGAGACCCAAAGGGCCTCGTTTTGAAGGAAATCGCCCCGATGGGCCAAGACCCAGATATGAAGGTCACCCA
GCAGAGGGCACTAAAAGCAAGTGGGGAATGATTCCCCGGGGGCCAGCATCTCAATTTTATATTACCCCCAGTACA
TCCCTAAGTCCTCGACAGAGTGGACCACAGTGGAAAGGCCCCAAACCAGCTTTTGGACAGCAGCATCAGCAGCAA
CCTAAGTCACAAGCAGAACCTCTTTCAGGAAACAAAGAACCATTAGCAGACACCAGTAGTAACCAGCAGAAGAAT
TTTAAAATGCAATCAGCTGCATTTTCCATTGCTGCAGATGTAAAGGATGTCAAGGCGGCTCAGTCAAATGAGAAT
CTAAGCGACTCTCAACAAGAGCCACCTAAAAGTGAAGTCTCGGAAGGGCCCGTAGAGCCCTCTAATTGGGACCAG
AATGTTCAAAGTATGGAGACTCAAATCGACAAAGCCCAAGCTGTTACTCAGCCTGTACCCCTTGCGAATAAGCCT
GTACCTGCTCAATCTACTTTTCCTTCAAAAACAGGGGGGATGGAGGGAGGAACAGCAGTAGCAACATCATCATTA
ACAGCAGATAATGATTTTAAACCTGTGGGTATTGGTCTACCCCATTCAGAAAACAACCAAGATAAAGGCCTGCCT
CGGCCAGATAATAGAGATAATAGATTAGAAGGCAATAGAGGCAACAGCTCATCTTACAGAGGTCCTGGGCAAAGC
AGAATGGAAGACACACGGGATAAAGGTCTAGTAAACAGAGGTCGCGGCCAGGCAATCAGTCGAGGCCCAGGATTG
GTCAAGCAAGAAGACTTTCGGGATAAGATGATGGGTAGAAGAGAAGATAGTCGAGAGAAGATGAACAGAGGAGAA
GGTAGCCGGGACAGAGGGTTGGTGAGGCCTGGAAGCAGTCGGGAGAAAGTGCCAGGTGGTCTTCAAGGGAGCCAG
GACAGGGGTGCAGCTGGCAGCCGAGAAAGGGGACCACCTCGGAGGGCTGGCAGTCAGGAGAGGGGACCTCTTCGA
AGGGCTGGGAGTAGAGAGAGAATACCACCCCGAAGAGCTGGGAGCAGGGAGAGAGGACCACCTCGAGGGCCTGGC
AGTCGAGAAAGGGGACTGGGAAGATCAGATTTTGGTCGTGATAGAGGTCCATTCAGACCAGAACCAGGAGATGGT
GGGGAAAAAATGTATCCATATCACCGGGATGAGCCTCCTAGGGCTCCATGAACCATGGAGAAGAGCGAGGGCAT
GAAGAGTTTCCATTAGATGGTAGAAATGCTCCAATGGAACGAGAAAGACTCGATGACTGGGATAGAGAGAGATAC
TGGAGAGAATGTGAACGTGACTATCAAGATGATACACTAGAGCTCTATAACAGAGAGGACAGGTTCTCAGCACCA
CCATCTCGGTCTCATGATGGAGATAGGCGAGGCCCTTGGTGGGATGATTGGGAGAGAGACCAGGATATGGATGAG
GACTACAATAGGGAAATGGAAAGGGACATGGACAGGGATGTGGATCGGATTTCAAGACCTATGGATATGTATGAT
AGAAGTTTGGATAATGAGTGGGACAGAGATTATGGGAGACCACTGGATGAACAAGAATCACAGTTTCGTGAACGG
GATATTCCATCTCTTCCACCTTTACCGCCCCTCCCACCTCTTCCACCTTTGGATAGATATCGGGATGATAGATGG
AGAGAAGAAAGAAATCGAGAGCATGGGTATGATCGAGATTTCCGTGATAGGGGTGAGTTGAGGATTCGAGAGTAT
CCAGAAAGAGGAGATACATGGCGGGAAAAGCGAGATTATGTTCCTGACAGAATGGACTGGGAAAGAGAACGGTTG
TCAGACAGATGGTACCCATCTGATGTGGATAGACATTCCCCCATGGCGGAACATATGCCCTCCTCACATCATTCC
TCAGAAATGATGGGGTCCGATGCAAGCTTAGACTCTGACCAAGGCCTTGGAGGGGTAATGGTTCTCAGTCAGAGG
CAGCATGAAATCATTTTGAAAGCTGCACAAGAACTGAAAATGCTTCGGGAACAGAAAGAACAGCTTCAAAAGATG
AAAGACTTCGGGTCTGAGCCACAGATGGCTGACCATCTACCACCTCAGGAATCAAGATTGCAGAATACATCTTCA
AGACCTGGAATGTATCCGCCTCCAGGGTCGTATAGACCTCCCCCTCCTATGGGCAAACCACCAGGTTCAATTGTA
AGACCCTCTGCTCCACCAGCAAGATCATCTGTTCCTGTGACCAGGCCACCTGTCCCAATACCACCACCTCCACCT
CCTCCACCTCTACCTCCTCCTCCTCCAGTGATAAAGCCACAAACTTCAGCTGTAGAACAGGAACGATGGGATGAA
GATTCTTTCTATGGGCTCTGGGATACAAATGATGAACAAGGACTGAATTCAGAATTTAAGTCAGAAACTGCAGCA
ATTCCATCTGCTCCAGTATTACCACCCCCACCTGTTCACTCTTCCATTCCCCCTCCTGGCCCAGTGCCTATGGGT
ATGCCACCAATGTCCAAGCCACCACCAGTACAACAGACTGTTGATTATGGCCATGGCCGAGATATATCCACTAAT
AAAGTTGAACAGATACCTTATGGAGAAAGAATAACTCTACGCCCAGATCCACTACCTGAAAGATCAACTTTTGAG
ACAGAGCATGCAGGCCAACGTGATCGTTATGATAGAGAAAGAGATCGTGAGCCTTATTTTGATCGTCAAAGTAAT
GTCATAGCAGATCATCGAGATTTTAAAAGGGATCGTGAGACACATAGAGATCGAGACCGGGATCGTGGTGTTATT
GACTATGACCGGGATCGATTTGACAGAGAACGCCGACCCCGAGATGATAGAGCTCAGTCATATCGAGACAAAAAA
GACCATTCCTCATCCAGAAGAGGGGGGTTTTGATAGGCCATCCTATGACCGGAAGTCTGACCGACCAGTCTATGAA
GGACCATCCATGTTTGGAGGAGAACGAAGGACTTATCCTGAGGAGCGAATGCCTCTGCCAGCTCCTTCACTGAGC
CACCAGCCTCCTCCAGCTCCACGAGTCGAGAAGAAGCCTGAATCAAAGAATGTGGACGATATTTTGAAACCACCG

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FIGURE 4050B

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GGCCGGGAGAGCAGACCTGAGAGAATTGTTGTTATAATGAGAGGATTACCTGGCAGTGGAAAGACACATGTTGCA
AAACTTATTCGAGATAAGGAGGTAGAATTTGGAGGACCTGCACCCAGAGTTCTAAGCCTGGATGATTACTTCATC
ACTGAAGTGGAAAAAGAAGAAAAAGATCCAGATTCTGGAAAGAAAGTGAAAAAGAAGGTAATGGAATATGAATAT
GAAGCTGAGATGGAGGAGACTTACCGCACCAGCATGTTCAAAACTTTCAAAAAGACTCTGGATGATGGCTTTTTT
CCCTTCATCATCCTGGATGCCATCAATGACAGAGTTAGGCATTTTGACCAGTTTTGGAGTGCAGCAAAAACCAAG
GGATTTGAGGTATATTTGGCTGAAATGAGTGCAGATAACCAGACTTGTGGCAAGAGAAATATTCATGGAAGAAAG
CTTAAAGAAATAAATAAGATGGCTGATCACTGGGAAACTGCACCTCGTCACATGATGCGTCTAGATATTCGTTCT
TTGCTGCAAGATGCTGCTATTGAAGAGGTAGAGATGGAAGATTTTGATGCAAATATCGAAGAACAGAAAGAAGAA
AAGAAAGATGCAGAGGAAGAGGAAAGCGAACTGGTAGGAGACAGACCAACCACTTTGAACAGTGTCTCTTTATTA
AAATTCTTAAAGAAGGTTTAAATTCAGATCTGTGGTTAGACAACTACTGTTGATATACACTTTAGTGGTAAAAGT
TTCCATAATCATCTTCAAGGAGACTTTTGGATACTCTTTATTTTTCCCCAGACCAAAAGAACCCTCTAATGTGGT
GTTAAGAGAAAGTTTTAACAGAGTGCTAAGAAACTTACCCTTGTACTCATCTATTTGTGGGTGGTTTTAGGGGAG
TATACCTTTTAAGAAAATCAATTACATATGAAAGGGCATTCTTACATTCCAGCAGATATGTGGCACAGCCTACCC
AACATATGCATAATTGTCTCTTCTTTGCTACAAGATCTCCAAATTTGAGTTTCTGTCAACAGAGGCAGAAGAACT
TATTGAATGGGGAGGCAGAGGGTTGCCACTGGCTGCTAGATTTGTTCTTCTGCATTTTATCCTAAGTGACGGGGA
AAAATTAAATGACTGTGTAGGCAATGGATTTTGCTCAGGCTGATTAGAGGCTTACATAGTGTGAGTTTAAAGTTT
CTGTGTACCTAATGTAAAATGCTTTCGATCACACCTCTGTAGAGATGTTTGCCTTTCCCTGTCATTCAAGAATAT
GCGACCTATAGAGTTACGTTGACTTTTCAGTGTTTACTGAAGTACAGAGATTAGCAATGCCTTGGAATAGTGTTG
CTTTTTAAATCCAGAATATTACTCGGTTTATTTAATACTTGAGCCCTTGCTAAAGTTGCTCCTCATATTCTTTTG
AAAATGTACAAAATGAGAACTCTGATTCCTACCCCCTAGAGTATACAGAATCTCCAGGGAGTGGTCCCATCGAAC
CCGTGTGTGATATAGAGGACTCTTGATAAAAACTGTGTTTATATAAAGATGGTGTCAACCTCTACATTCCAAGAT
TTCAAATGTGGATTAAAAAATAAGTTTTAAAGT
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FIGURE 4051

MPVRSGGLLPDPPRSSYLESPRGPRFDGPRRFEDLGSRCEGPRPKGPRFEGNRPDGPRPRYEGHPAEGTKSKWGM
IPRGPASQFYITPSTSLSPRQSGPQWKGPKPAFGQQHQQQPKSQAEPLSGNKEPLADTSSNQQKNFKMQSAAFSI
AADVKDVKAAQSNENLSDSQQEPPKSEVSEGPVEPSNWDQNVQSMETQIDKAQAVTQPVPLANKPVPAQSTFPSK
TGGMEGGTAVATSSLTADNDFKPVGIGLPHSENNQDKGLPRPDNRDNRLEGNRGNSSSYRGPGQSRMEDTRDKGL
VNRGRGQAISRGPGLVKQEDFRDKMMGRREDSREKMNRGEGSRDRGLVRPGSSREKVPGGLQGSQDRGAAGSRER
GPPRRAGSQERGPLRRAGSRERIPPRRAGSRERGPPRGPGSRERGLGRSDFGRDRGPFRPEPGDGGEKMYPYHRD
EPPRAPWNHGEERGHEEFPLDGRNAPMERERLDDWDRERYWRECERDYQDDTLELYNREDRFSAPPSRSHDGDRR
GPWWDDWERDQDMDEDYNREMERDMDRDVDRISRPMDMYDRSLDNEWDRDYGRPLDEQESQFRERDIPSLPPLPP
LPPLPPLDRYRDDRWREERNREHGYDRDFRDRGELRIREYPERGDTWREKRDYVPDRMDWERERLSDRWYPSDVD
RHSPMAEHMPSSHHSSEMMGSDASLDSDQGLGGVMVLSQRQHEIILKAAQELKMLREQKEQLQKMKDFGSEPQMA
DHLPPQESRLQNTSSRPGMYPPPGSYRPPPPMGKPPGSIVRPSAPPARSSVPVTRPPVPIPPPPPPPPLPPPPPV
IKPQTSAVEQERWDEDSFYGLWDTNDEQGLNSEFKSETAAIPSAPVLPPPPVHSSIPPPGPVPMGMPPMSKPPPV
QQTVDYGHGRDISTNKVEQIPYGERITLRPDPLPERSTFETEHAGQRDRYDRERDREPYFDRQSNVIADHRDFKR
DRETHRDRDRDRGVIDYDRDRFDRERRPRDDRAQSYRDKKDHSSSRRGGFDRPSYDRKSDRPVYEGPSMFGGERR
TYPEERMPLPAPSLSHQPPPAPRVEKKPESKNVDDILKPPGRESRPERIVVIMRGLPGSGKTHVAKLIRDKEVEF
GGPAPRVLSLDDYFITEVEKEEKDPDSGKKVKKKVMEYEYEAEMEETYRTSMFKTFKKTLDDGFFPFIILDAIND
RVRHFDQFWSAAKTKGFEVYLAEMSADNQTCGKRNIHGRKLKEINKMADHWETAPRHMMRLDIRSLLQDAAIEEV
EMEDFDANIEEQKEEKKDAEEEESELGYIPKSKWEMDTSEAKLDKLDGLRTGTKRKRDWEAIASRMEDYLQLPDD
YDTRASEPGKKRVRWADLEEKKDADRKRAIGFVVGQTDWEKITDESGHLAEKALNRTKYI

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FIGURE 4052

GGCACGAGGCTGCTGTCTGCGGAGGAAACTGCATCGACGGACGGCCGCCCAGCTACGGGAGGACCTGGAGTGGCA
CTGGGCGCCCGACGGACCATCCCCGGGACCCGCCTGCCCCTCGGCGCCCCGCCCCGCCGGGCCGCTCCCCGTCGG
GTTCCCCAGCCACAGCCTTACCTACGGGCTCCTGACTCCGCAAGGCTTCCAGAAGATGCTCGAACCACCGGCCGG
GGCCTCGGGGCAGCAGTGAGGGAGGCGTCCAGCCCCCCACTCAGCTCTTCTCCTCCTGTGCCAGGGGCTCCCCGG
GGGATGAGCATGGTGGTTTTCCCTCGGAGCCCCCTGGCTCGGGACGTCTGAGAAG**ATG**CCGGTCATGAGGCTGTT
CCCTTGCTTCCTGCAGCTCCTGGCCGGGCTGGCGCTGCCTGCTGTGCCCCCCCAGCAGTGGGCCTTGTCTGCTGG
GAACGGCTCGTCAGAGGTGGAAGTGGTACCCTTCCAGGAAGTGTGGGGCCGCAGCTACTGCCGGGCGCTGGAGAG
GCTGGTGGACGTCGTGTCCGAGTACCCCAGCGAGGTGGAGCACATGTTCAGCCCATCCTGTGTCTCCCTGCTGCG
CTGCACCGGCTGCTGCGGCGATGAGAATCTGCACTGTGTGCCGGTGGAGACGGCCAATGTCACCATGCAGCTCCT
AAAGATCCGTTCTGGGGACCGGCCCTCCTACGTGGAGCTGACGTTCTCTCAGCACGTTCGCTGCGAATGCCGGCC
TCTGCGGGAGAAGATGAAGCCGGAAAGGAGGAGACCCAAGGGCAGGGGGAAGAGGAGGAGAGAGAAGCAGAGACC
CACAGACTGCCACCTGTGCGGCGATGCTGTTCCCCGGAGG**TAA**CCCACCCCTTGGAGGAGAGAGACCCCGCACCC
GGCTCGTGTATTTATTACCGTCACACTCTTCAGTGACTCCTGCTGGTACCTGCCCTCTATTTATTAGCCAACTGT
TTCCCTGCTGAATGCCTCGCTCCCTTCAAGACGAGGGGCAGGGAAGGACAGGACCCTCAGGAATTCAGTGCCTTC
AACAACGTGAGAGAAAGAGAGAAGCCAGCCACAGACCCCTGGGAGCTTCCGCTTTGAAAGAAGCAAGACACGTGG
CCTCGTGAGGGGCAAGCTAGGCCCCAGAGGCCCTGGAGGTCTCCAGGGGCCTGCAGAAGGAAAGAAGGGGGCCCT
GCTACCTGTTCTTGGGCCTCAGGCTCTGCACAGTCAAGCAGCCCTTGCTTTCGGAGCTCCTGTCCAAAAGTAGGG
ATGCGGATCCTGCTGGGGCCGCCACGGCCTGGCTGGTGGGAAGGCCGGCAGCGGGCGGAGGGGATCCAGCCACTT
CCCCCTCTTCTTCTGAAGATCAGAACATTCAGCTCTGGAGAACAGTGGTTGCCTGGGGGCTTTTGCCACTCCTTG
TCCCCCGTGATCTCCCCTCACACTTTGCCATTTGCTTGTACTGGGACATTGTTCTTTCCGGCCAAGGTGCCACCA
CCCTGCCCCCCCTAAGAGACACATACAGAGTGGGCCCCGGGCTGGAGAAAGAGCTGCCTGGATGAGAAACAGCTC
AGCCAGTGGGGATGAGGTCACCAGGGGAGGAGCCTGTGCGTCCCAGCTGAAGGCAGTGGCAGGGGAGCAGGTTCC
CCAAGGGCCCTGGCACCCCCACAAGCTGTCCCTGCAGGCCATCTGACTGCCAAGCCAGATTCTCTTGAATAAAG
TATTCTAGTGTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4053

MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNGSSEVEVVPFQEVWGRSYCRALERLVDVVSEYPSEVEHMFSP
SCVSLLRCTGCCGDENLHCVPVETANVTMQLLKIRSGDRPSYVELTFSQHVRCECRPLREKMKPERRRPKGRGKR
RREKQRPTDCHLCGDAVPRR

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FIGURE 4054

GATAGACCACCATCATGAACGACACAGTAACTATCCACACTAGAAAGTTCATGATCAACCGACGACTTCAGAGGA
AACAAACAGTCATTGATATCCTTCACCCTGGGAAGGCAACAGTGCCTAAGACAGAAATTTGGGAAAAACTAGCCA
AAATGTACAAGACCACACTGGATGTCATCTTTGTATTTGCATTCAAAACTCATTTTGGTGGTGGCAAGACAACCG
GCTTTGGCATGATTTATGATCCCCTGGATTATGCAAAGAAAAATGAACCCAAACATAGACTTGCAAGACATGGCC
TGTATGAGAAGAAAAAGACCTCAAGAAAGCAATGAGAGGAACGCAAGAACAGAATGAGGAAAGTCAGGGGGACTG
CAAAGGCCAATGTTGGTGCTGGCAAAAAGCTGAAGGAGTAAAGGTGCTGCAATGGTGTAATCTGTGGCCATTGTG
GATTTTTCACAAGAATATTAATAAACTAAACACTTCAAAAAAAAAAAAAAAAAAA

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FIGURE 4055

AAAAGCAAGCCAGGAGGTGCTTGCGGCCGCTTCTAGTAGTTTCCAGGCGCTGCCGGGCGGCTGGCACTAAGCGGT
CCTGAGGCTGTGGCTACGGCTGCTCCGGAGCTGGTGGCGCCGCGATAGGAGAGCCGATGGCCAAGTGGGGTGAGG
GAGACCCACGCTGGATCGTGGAGGAGCGGGCGGACGCCACCAACGTCAACAACTGGCACTGGACGGAGAGAGATG
CTTCAAATTGGTCCACGGATAAGCTGAAAACACTGTTCTTGGCAGTGCAGGTTCAAAATGAAGAAGGCAAGTGTG
AGGTGACGGAAGTGAGTAAGCTTGATGGAGAGGCATCCATTAACAATCGCAAAGGGAAACTTATCTTCTTTTATG
AATGGAGCGTCAAACTAAACTGGACAGGTACTTCTAAGTCAGGAGTACAGTACAAAGGACATGTGGAGATCCCCA
ATTTGTCTGATGAAAACAGCGTGGATGAAGTGGAGATTAGTGTGAGCCTTGCCAAAGATGAGCCTGACACAAATC
TCGTGGCCTTAATGAAGGAAGAAGGGGTGAAACTTCTAAGAGAAGCAATGGGAATTTACATCAGCACCCTCAAAA
CAGAGTTCACCCAGGGCATGATCTTACCTACAATGAATGGAGAGTCAGTAGACCCAGTGGGGCAGCCAGCACTGA
AAACTGAGGAGCGCAAGGCTAAGCCTGCTCCTTCAAAAACCCAGGCCAGACCTGTTGGAGTCAAAATCCCCACTT
GTAAGATCACTCTTAAGGAAACCTTCCTGACGTCACCAGAGGAGCTCTATAGAGTGTTTACCACCCAAGAGCTGG
TGCAGGCCTTTACCCATGCTCCTGCAACATTAGAAGCAGACAGAGGTGGAAAGTTCCACATGGTAGATGGCAACG
TCTCTGGGGAATTTACTGATCTGGTCCCTGAGAAACATATTGTGATGAAGTGGAGGTTTAAATCTTGGCCAGAGG
GACACTTTGCCACCATCACCTTGACCTTCATCGACAAGAACGGAGAGACTGAGCTGTGCATGGAAGGTCGAGGCA
TCCCTGCTCCTGAGGAAGAGCGGACACGACAGGGCTGGCAGCGGTACTACTTTGAGGGCATTAAACAGACCTTTG
GCTATGGCGCACGCTTATTTTAGGGCCAGCGGCAGGGGACTCCAGCCTGCTGGACACTTCAGTCCAGCTCTCTCC
TGACTGGGGCTTGCGACTCACAGGATTGCATCGTCCCAGCTGCTAACTTGGGGCCGGGGCCCCTCCCTTCCACAT
ATACCTTGGGTTTGTGCATGTTTTCTGCTGGGTGGGTTCAGAGGGCAATTTCTCTTTTATGTGTACATATGCTAA
ATAAACATAATTTAAAAAACAAAAA

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FIGURE 4056

MAKWGEGDPRWIVEERADATNVNNWHWTERDASNWSTDKLKTLFLAVQVQNEEGKCEVTEVSKLDGEASINNRKG
KLIFFYEWSVKLNWTGTSKSGVQYKGHVEIPNLSDENSVDEVEISVSLAKDEPDTNLVALMKEEGVKLLREAMGI
YISTLKTEFTQGMILPTMNGESVDPVGQPALKTEERKAKPAPSKTQARPVGVKIPTCKITLKETFLTSPEELYRV
FTTQELVQAFTHAPATLEADRGGKFHMVDGNVSGEFTDLVPEKHIVMKWRFKSWPEGHFATITLTFIDKNGETEL
CMEGRGIPAPEEERTRQGWQRYYFEGIKQTFGYGARLF

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FIGURE 4057

GTAGGAGTCCGCGGCAGCCTCCGGGTAAGCCAAGCGCCGCGCAGTGCTGAGTTCCCGCACGCCGCAGAGCCATGG
AGATCGGCACCGAGATCAGCCGCAAGATCCGGAGTGCCATTAAGGGGAAATTACAAGAATTAGGAGCTTATGTTG
ATGAAGAACTTCCTGATTACATTATGGTGATGGTGGCCAACAAGAAAAGTCAGGACCAAATGACAGAGGATCTGT
CCCTGTTTCTAGGGAACAACACAATTCGATTCACCGTATGGCTTCATGGTGTATTAGATAAACTTCGCTCTGTTA
CAACTGAACCCTCTAGTCTGAAGTCTTCTGATACCAACATCTTTGATAGTAACGTGCCTTCAAACAAGAGCAATT
TCAGTCGGGGAGATGAGAGGAGGCATGAAGCTGCAGTGCCACCACTTGCCATTCCTAGCGCGAGACCTGAAAAAA
GAGATTCCAGAGTTTCTACAAGTTCGCAGGAGTCAAAAACCACAAATGTCAGACAGACTTACGATGATGGAGCTG
CAACCCGACTAATGTCAACAGTGAAACCTTTGAGGGAGCCAGCACCCTCTGAAGATGTGATTGATATTAAGCCAG
AACCAG**ATG**ATCTCATTGACGAAGACCTCAACTTTGTGCAGGAGAATCCCTTATCTCAGAAAAAAACCTACAGTG
ACACTTACATATGGTTCTTCTCGCCCTTCTATTGAAATTTATCGACCACCTGCAAGTAGAAATGCAGATAGTGGT
GTTCATTTAAACAGGTTGCAATTTCAACAGCAGCAGAATAGTATTCATGCTGCCAAGCAGCTTGATATGCAGAGT
AGTTGGGTATATGAAACAGGACGTTTGTGTGAACCAGAGGTGCTTAACAGCTTAGAAGAAACGTATAGTCCGTTC
TTTAGAAACAACTCGGAGAAAATGAGTATGGAGGATGAAAACTTTCGGAAGAGAAAGTTGCCTGTGGTAAGTTCA
GTTGTTAAAGTAAAAAAATTCAATCATGATGGAGAAGAGGAGGAAGAAGATGATGATTACGGGTCTCGAACAGGA
AGCATCTCCAGCAGTGTGTCTGTGCCTGCAAAGCCTGAAAGGAGACCTTCTCTTCCACCTTCTAAACAAGCTAAC
AAGAATCTGATTTTGAAGGCTATATCTGAAGCTCAAGAATCCGTAACAAAAACAACTAACTACTCTACAGTTCCA
CAGAAACAGACACTTCCAGTTGCTCCCAGAACTCGAACTTCTCAAGAAGAATTGCTAGCAGAAGTGGTCCAGGGA
CAAAGTAGGACCCCCAGAATAAGTCCCCCCATTAAAGAAGAGGAAACAAAAGGAGATTCTGTAGAAAAAAATCAA
GCTGAGATGAGTGAACTGAGTGTGGCACAGAAACCAGAAAAACTTTTGGAGCGCTGCAAGTACTGGCCTGCTTGT
AAAAATGGGGATGAGTGTGCCTACCATCACCCCATCTCACCCTGCAAAGCCTTCCCCAATTGTAAATTTGCTGAA
AAATGTTTGTTTGTTCACCCAAATTGTAAATATGATGCAAAGTGTACTAAACCAGATTGTCCCTTCACTCATGTG
AGTAGAAGAATTCCAGTACTGTCTCCAAAACCAGTTGCACCACCAGCACCACCTTCCAGTAGTCAGCTCTGCCGT
TACTTCCCTGCTTGTAAGAAGATGGAATGTCCCTTCTATCATCCAAAACATTGTAGGTTTAACACTCAATGTACA
AGACCGGACTGCACATTCTACCATCCCACCATTAATGTCCCACCACGACATGCCTTGAAATGGATTCGACCTCAA
ACCAGCGAA**TAG**CACCCAGTCCTGCCTGGCAGAAGATCATGCAGTTTGGAAGTTTTCATGTACTGATGAAAGATA
CTCTACAGAACTTGTCAAATCTTTGAAACTTGGAATATATTGCTTTCATAATATGAAGTTTTATTGCCTATCT

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FIGURE 4058

MISLTKTSTLCRRIPYLRKKPTVTLTYGSSRPSIEIYRPPASRNADSGVHLNRLQFQQQQNSIHAAKQLDMQSSW
VYETGRLCEPEVLNSLEETYSPFFRNNSEKMSMEDENFRKRKLPVVSSVVKVKKFNHDGEEEEEDDDYGSRTGSI
SSSVSVPAKPERRPSLPPSKQANKNLILKAISEAQESVTKTTNYSTVPQKQTLPVAPRTRTSQEELLAEVVQGQS
RTPRISPPIKEEETKGDSVEKNQAEMSELSVAQKPEKLLERCKYWPACKNGDECAYHHPISPCKAFPNCKFAEKC
LFVHPNCKYDAKCTKPDCPFTHVSRRIPVLSPKPVAPPAPPSSSQLCRYFPACKKMECPFYHPKHCRFNTQCTRP
DCTFYHPTINVPPRHALKWIRPQTSE

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FIGURE 4059

AATTCCGGCGGAAGTGGTGGAGGAACTTCCGGCAGCGGCAGCTCAAGTGGCCAAGGCAAG<u>ATG</u>GGTCAAAGTCAG
AGTGGTGGTCATGGTCCTGGAGGTGGCAAGAAGGATGACGAGGACAAGAAAAAGAAATATGAACCTCCTGTACCA
ACTAGAGTGGGGAAAAAGAAGAAGAAAACAAAGGGACCAGATGCTGCCAGCAAACTGCCACTGGTGACACCTCAC
ACTCAGTGCCGGTTAAAATTACTGAAGTTAGAGAGAATTAAAGACTATCTTCTCATGGAGGAAGAATTCATTAGA
AATCAGGAACAAATGAAACCATTAGAAGAAAAGCAAGAGGAGGAAAGATCAAAAGTGGATGATCTGAGGGGGACC
CCGATGTCAGTAGGAACCTTGGAAGAGATTATTGATGACAATCATGCCATCGTGTCTACATCTGTGGGCTCAGAA
CACTACGTCAGCATTCTTTCATTTGTAGACAAGGATCTGCTGGAACCTGGCTGCTCGGTCCTGCTCAACCACAAG
GTGCATGCCGTGATAGGGGTGCTGATGGATGACACGGATCCCCTGGTCACAGTGATGAAGGTAGAAAAGGCCCCC
CAGGAGACCTATGCAGATATTGGGGGGTTGGACAACCAAATTCAGGAAATTAAGGAATCTGTGGAGCTTCCTCTC
ACCCATCCTGAATATTATGAAGAGATGGGTATAAAGCCTCCTAAGGGGGTCATTCTCTATGGTCCACCTGGCACA
GGTAAAACCTTGTTAGCCAAAGCAGTAGCAAACCAAACCTCAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACTT
ATTCAGAAGTACCTAGGTGATGGGCCCAAACTCGTACGGGAATTGTTCCGAGTTGCTGAAGAACATGCACCGTCC
ATCGTGTTTATTGATGAAATTGACGCCATTGGGACAAAAAGATATGACTCCAATTCTGGTGGTGAGAGAGAAATT
CAGCGAACAATGTTGGAACTGCTGAACCAGTTGGATGGATTTGATTCTAGGGGAGATGTGAAAGTTATCATGGCC
ACAAACCGAATAGAAACTTTGGATCCAGCACTTATCAGACCAGGCCGCATTGACAGGAAGATTGAGTTCCCCCTG
CCTGATGAAAAGACGAAGAAGCGCATCTTTCAGATTCACACAAGCAGGATGACGCTGGCTGATGATGTAACCCTG
GACGACCTGATCATGGCTAAAGATGACCTCTCTGGTGCTGACATCAAGGCAATCTGTACAGAAGCTGGTCTGATG
GCCTTAAGAGAACGTAGAATGAAAGTAACAAATGAAGACTTCAAAAAATCTAAAGAAAATGTTCTTTATAAGAAA
CAGGAAGGCACCCCTGAGGGGCTGTATCTC<u>TAA</u>TGAACCATGGCTGTCATCAGGAAAATGGTTGGGAGATTTCTC
AATCCCTGAAAGGGATGAGGTTGGGGGAGTTGCCCAGAGGAATCCCTGTTCCCACTGATTTTTATTAGCAAAACA
TCCTGTGTCTTTTGGAGTACGATGTGTAAGTGCCCATTGGGTGGCCTGTTGGTCACTGTGCAGCAGTCTGCTTCC
CAATAAAGCGTGCTCTTTCACAAG

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FIGURE 4060

MGQSQSGGHGPGGGKKDDEDKKKKKYEPPVPTRVGKKKKKTKGPDAASKLPLVTPHTQCRLKLLKLERIKDYLLME
EEFIRNQEQMKPLEEKQEEERSKVDDLRGTPMSVGTLEEIIDDNHAIVSTSVGSEHYVSILSFVDKDLLEPGCSV
LLNHKVHAVIGVLMDDTDPLVTVMKVEKAPQETYADIGGLDNQIQEIKESVELPLTHPEYYEEMGIKPPKGVILY
GPPGTGKTLLAKAVANQTSATFLRVVGSELIQKYLGDGPKLVRELFRVAEEHAPSIVFIDEIDAIGTKRYDSNSG
GEREIQRTMLELLNQLDGFDSRGDVKVIMATNRIETLDPALIRPGRIDRKIEFPLPDEKTKKRIFQIHTSRMTLA
DDVTLDDLIMAKDDLSGADIKAICTEAGLMALRERRMKVTNEDFKKSKENVLYKKQEGTPEGLYL

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FIGURE 4061

CCTTTCGGCCGGAACCGCCATGTTCCAGTAATTCGCCAAA**ATG**ACGAACACAAAGGGAAAGAGGAGAGGCACCCG
ATATATGTTCTCTAGGCCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCACATATATGCGAATCTATAAGAAAGT
TGATATTGTAGACGTCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGG
AAGAGTCTACAGTGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAA
GAGAATTAATGTGCGTATTAAGCACATTAAGCACTCTAAGAGCCAAGATAGCTTCCTGAAACGCGTGAAGGAAAA
TGATCCTCCACCCAGAGAAGCACACTTTGTGAGAACCAGTGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTG
TGAATTCATGGCA**TAA**TAGGTGTT

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FIGURE 4062

MTNTKGKRRGTRYMFSRPFRKHGVVPLATYMRIYKKVDIVDVKGMGTVQKGMPHKCYHGKTGRVYSVTQHAVGIV
VNKQVKGKILAKRINVRIKHIKHSKSQDSFLKRVKENDPPPREAHFVRTSGKEPELLEPIPCEFMA

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FIGURE 4063

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AGTGGTGCTGGGAGTGTCGTGGACGCCGTGCCGTTACTCGTAGTCAGGCGGCGGCGCAGGCGGCGGCGGCGGCAT
AGCGCACAGCGCGCCTTAGCAGCAGCAGCAGCAGCAGCAGCATCGGAGGTACCCCCGCCGTCGCAGCCCCCGCGC
TGGTGCAGCCACCCTCGCTCCCTCTGCTCTTCCTCCCTTCGCTCGCACCATGGCTGATCAGCTGACCGAAGAACA
GATTGCTGAATTCAAGGAAGCCTTCTCCCTATTTGATAAAGATGGCGATGGCACCATCACAACAAAGGAACTTGG
AACTGTCATGAGGTCACTGGGTCAGAACCCAACAGAAGCTGAATTGCAGGATATGATCAATGAAGTGGATGCTGA
TGGTAATGGCACCATTGACTTCCCCGAATTTTTGACTATGATGGCTAGAAAAATGAAAGATACAGATAGTGAAGA
AGAAATCCGTGAGGCATTCCGAGTCTTTGACAAGGATGGCAATGGTTATATCAGTGCAGCAGAACTACGTCACGT
CATGACAAACTTAGGAGAAAAACTAACAGATGAAGAAGTAGATGAAATGATCAGAGAAGCAGATATTGATGGAGA
CGGACAAGTCAACTATGAAGAATTCGTACAGATGATGACTGCAAAATGAAGACCTACTTTCAACTCCTTTTTCCC
CCCTCTAGAAGAATCAAATTGAATCTTTTACTTACCTCTTGCAAAAAAAAGAAAAAAGAAAAAAGTTCATTTATT
CATTCTGTTTCTATATAGCAAAACTGAATGTCAAAAGTACCTTCTGTCCACACACACAAAATCTGCATGTATTGG
TTGGTGGTCCTGTCCCCTAAAGATCAAGCTACACATCAGTTTTACAATATAAATACTTGTACTACCTTAATGATA
AGGACTCCTTAAAGTTCCATTTGCTAATGATTAATACACTGTTTGGGCTGGCCAGTTTTTCATGCATGCAGCTTG
ACGATTGAGCACAGTCAGGCCTTTGTATTAAAAATGAAAAATGAAAAAACAAATTCAAAACCTATTCAAATGGGT
TCTAGTTCAATTTGTTTAGTATAAATTGTCATAGCTGGTTTACTGAAAACAAACACATTTAAAATTGGTTTACCT
CAGGATGACGTGCAGAAAAATGGGTGAAGGATAAACCGTTGAGACGTGGCCCCACTGGTAGGATGGTCCTCTTGT
ACTTCGTGTGCTCCGACCCATGGTGACGATGACACACCCTGGTGGCATGCCCGTGTATGTTGGTTTAGCGTTGTC
TGCATTGTTCTAGAGTGAAACAGGTGTCAGGCTGTCACTGTTCACACAAATTTTTAATAAGAAACATTTACCAAG
GGAGCATCTTTGGACTCTCTGTTTTTAAAACCTTCTGAACCATGACTTGGAGCCGGCAGAGTAGGCTGTGGCTGT
GGACTTCAGCACAACCATCAACATTGCTGTTCAAAGAAATTACAGTTTACGTCCATTCCAAGTTGTAAATGCTAG
TCTTTTTTTTTTTTTTTTTCCAATAAA
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FIGURE 4064

MADQLTEEQIAEFKEAFSLFDKDGDGTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMAR
KMKDTDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK

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FIGURE 4065

GCTGCCACCGCTCCTGCCACTGCAGTGCTCGAGCCCCGTGCAGGGGAGCTTGCGGGAGGATCGACCGACAGACGG
ACGCACGCCGAGGCACTGCGCCCCCAGCCCCGCGCCGGTGCCACCGCAGCCCGACCCCGGCCGCCAGTCCAGCCG
CCCCTCGCCCGGTGCCTAGGTGCCCGGCCCCACACCGCCAGCTGCTCGGCGCCCGGGTCCGCC**ATG**CGCTCCGCC
GCTGTCCTGGCTCTTCTGCTCTGCGCCGGGCAAGTCACTGCGCTCCCTGTGAACAGCCCTATGAATAAAGGGGAT
ACCGAGGTGATGAAATGCATCGTTGAGGTCATCTCCGACACACTTTCCAAGCCCAGCCCCATGCCTGTCAGCCAG
GAATGTTTTGAGACACTCCGAGGAGATGAACGGATCCTTTCCATTCTGAGACATCAGAATTTACTGAAGGAGCTC
CAAGACCTCGCTCTCCAAGGCGCCAAGGAGAGGGCACATCAGCAGAAGAAACACAGCGGTTTTGAAGATGAACTC
TCAGAGGTTCTTGAGAACCAGAGCAGCCAGGCCGAGCTGAAAGAGGCGGTGGAAGAGCCATCATCCAAGGATGTT
ATGGAGAAAAGAGAGGATTCCAAGGAGGCAGAGAAAAGTGGTGAAGCCACAGACGGAGCCAGGCCCCAGGCCCTC
CCGGAGCCCATGCAGGAGTCCAAGGCTGAGGGGAACAATCAGGCCCCTGGGGAGGAAGAGGAGGAGGAGGAGGAG
GCCACCAACACCCACCCTCCAGCCAGCCTCCCCAGCCAGAAATACCCAGGCCCACAGGCCGAGGGGGACAGTGAG
GGCCTCTCTCAGGGTCTGGTGGACAGAGAGAAGGGCCTGAGTGCAGAGCCAGGGTGGCAGGCAAAGAGAGAAGAG
GAGGAGGAGGAGGAGGAGGAGGCTGAGGCTGGAGAGGAGGCTGTCCCCGAGGAAGAAGGCCCCACTGTAGTGCTG
AACCCCCACCCGAGCCTTGGCTACAAGGAGATCCGGAAAGGCGAGAGTCGGTCGGAGGCTCTGGCTGTGGATGGA
GCTGGGAAGCCTGGGGCTGAGGAGGCTCAGGACCCCGAAGGGAAGGGAGAACAGGAGCACTCCCAGCAGAAAGAG
GAGGAGGAGGAGATGGCAGTGGTCCCGCAAGGCCTCTTCCGGGGTGGGAAGAGCGGAGAGCTGGAGCAGGAGGAG
GAGCGGCTCTCCAAGGAGTGGGAGGACTCCAAACGCTGGAGCAAGATGGACCAGCTGGCCAAGGAGCTGACGGCT
GAGAAGCGGCTGGAGGGGCAGGAGGAGGAGGAGGACAACCGGGACAGTTCCATGAAGCTCTCCTTCCGGGCCCGG
GCCTACGGCTTCAGGGGCCCTGGGCCGCAGCTGCGACGAGGCTGGAGGCCATCCTCCCGGGAGGACAGCCTTGAG
GCGGGCCTGCCCCTCCAGGTCCGAGGCTACCCCGAGGAGAAGAAAGAGGAGGAGGGGCAGCGCAAACCGCAGACCA
GAGGACCAGGAGCTGGAGAGCCTGTCGGCCATTGAAGCAGAGCTGGAGAAAGTGGCCCACCAGCTGCAGGCACTA
CGGCGGGGC**TGA**GACACCGGCTGGCAGGGCTGGCCCCAGGGCACCCTGTGGCCCTGGCTCTGCTGTCCCCTTGGC
AGGTCCTGGCCAGATGGCCCGGACGCTGCTTCCGGTAGGGAGGCAGCCTCCAGCCTGCCCAAGCCCAGGCCACCC
TATCGCCCCCTACGCGCCTTGTCTCCTACTCCTGACTCCTACCTGCCCTGGAACATCCTTTGCAGGGCAGCCCCA
CAACTTTAAACATTGACGATTCCTTCTCTGAACACAGGCAGCTTTCTAGAAGTTTCCCTTCCTCCATCCTATCCA
CTGGGCACAACTGCAATAACTTCTGACCTTTTGGTGAAAGCTGAGAACTCCTGACTGTAACATATTCTGTATGAA
CTTTATCTAAAGAAAAATAAATCTGTTCTGGGCTCTTTCCTCTG

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FIGURE 4066

MRSAAVLALLLCAGQVTALPVNSPMNKGDTEVMKCIVEVISDTLSKPSPMPVSQECFETLRGDERILSILRHQNL
LKELQDLALQGAKERAHQQKKHSGFEDELSEVLENQSSQAELKEAVEEPSSKDVMEKREDSKEAEKSGEATDGAR
PQALPEPMQESKAEGNNQAPGEEEEEEEEATNTHPPASLPSQKYPGPQAEGDSEGLSQGLVDREKGLSAEPGWQA
KREEEEEEEEEAEAGEEAVPEEEGPTVVLNPHPSLGYKEIRKGESRSEALAVDGAGKPGAEEAQDPEGKGEQEHS
QQKEEEEEMAVVPQGLFRGGKSGELEQEEERLSKEWEDSKRWSKMDQLAKELTAEKRLEGQEEEEDNRDSSMKLS
FRARAYGFRGPGPQLRRGWRPSSREDSLEAGLPLQVRGYPEEKKEEEGSANRRPEDQELESLSAIEAELEKVAHQ
LQALRRG

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FIGURE 4067

GACTGCGCGCCCCAGCTCCGATCCCCGTTCCGCGTCCCCGCCGCCGGGAGGAGGTGCCCACTCGCTCGCGGCGCG
CGCCGGCCGCCAGACTCGGCCTGTGGGCGATTTCCTCCGGACCCAGGCTCCCCGCCCGAGGAGGAAGATGCAGAC
CTTTCTGAAAGGGAAGAGAGTTGGCTACTGGCTGAGCGAGAAGAAAATCAAGAAGCTGAATTTCCAGGCCTTCGC
CGAGCTGTGCAGGAAGCGAGGGATGGAGGTTGTGCAGCTGAACCTTAGCCGGCCGATCGAGGAGCAGGGCCCCCT
GGACGTCATCATCCACAAGCTGACTGACGTCATCCTTGAAGCCGACCAGAATGATAGCCAGTCCCTGGAGCTGGT
GCACAGGTTCCAGGAGTACATCGATGCCCACCCTGAGACCATCGTCCTGGACCCGCTCCCTGCCATCAGAACCCT
GCTTGACCGCTCCAAGTCCTATGAGCTCATCCGGAAGATTGAGGCCTACATGGAAGACGACAGGATCTGCTCGCC
ACCCTTCATGGAGCTCACGAGCCTGTGCGGGGATGACACCATGCGGCTGCTGGAGAAGAACGGCTTGACTTTCCC
ATTCATTTGCAAAACCAGAGTGGCTCATGGCACCAACTCTCACGAGATGGCTATCGTGTTCAACCAGGAGGGCCT
GAACGCCATCCAGCCACCCTGCGTGGTCCAGAATTTCATCAACCACAACGCCGTCCTGTACAAGGTGTTCGTGGT
TGGCGAGTCCTACACCGTGGTCCAGAGGCCCTCACTCAAGAACTTCTCCGCAGGCACATCAGACCGTGAGTCCAT
CTTCTTCAACAGCCACAACGTGTCAAAGCCGGAGTCGTCATCGGTCCTGACGGAGCTGGACAAGATCGAGGGCGT
GTTCGAGCGGCCGAGCGACGAGGTCATCCGGGAGCTCTCCCGGGCCCTGCGGCAGGCACTGGGCGTGTCACTCTT
CGGCATCGACATCATCATCAACAACCAGACAGGGCAGCACGCCGTCATTGACATCAATGCCTTCCCAGGCTACGA
GGGCGTGAGCGAGTTCTTCACAGACCTCCTGAACCACATCGCCACTGTCCTGCAGGGCCAGAGCACAGCCATGGC
AGCCACAGGGGACGTGGCCCTGCTGAGGCACAGCAAGCTTCTGGCCGAGCCGGCGGGCGGCCTGGTGGGCGAGCG
GACATGCAGCGCCAGCCCCGGCTGCTGCGGCAGCATGATGGGCCAGGACGCGCCCTGGAAGGCTGAGGCCGACGC
GGGCGGCACCGCCAAGCTGCCGCACCAGAGACTCGGCTGCAACGCCGGCGTGTCGCCCAGCTTCCAGCAGCATTG
TGTGGCCTCCCTGGCCACCAAGGCCTCCTCCCAGTAGCCACGGAGCCGGGACCCAGAGGGGCAGCGCAGGGCGCA
GAGCACACCCGCTGGGCCAGCAGCTCCCAACGGCGATGCTACTACTAAGAATCCCCAGTGATCTGATTCTTCTGT
TTTTTAATTTTTAACCTGATTCTCTGATGTCATGATCTAAATGAGGGGTAGTGGGGGATGGAAGAGAGTACCAGG
TGGTCCACCGTTGGGGAGTGGGGCCGTCCGCCTGCTCTCTACTGTGCAGACCTCCTAACTGAGTTTACACACGCT
TGTGTTTGCAACACTAGGTCTGGATGGGAGGTGAGGGGTGTGCGTATGGCTGCCATGCCAGTGTCTGTGCACATC
CCTGTCTGTTGGTCTCCATGGCCACTGTGGACCGGGACCCTTGGGGGAAGCCTGCCCATGTCGGGCTGTGGGAGG
CTGATCGGTGCATGTGAGAGTGGCTTCCCTTCTGCCTGACTCCCCACTCCCTGACCTGCCCCTTCCTTGTTTTTC
CTCCTACTGGTCTCCACCAAGGCTTTGTTAGCCCCCACCCTGCCTGGTGTGCAGCTAACCCCTCCCTCCCCACAG
CCAGAGGAGGCCACAGACCCCTCAGGGGAGTTCCGCGCTGGGGTCTGGGCTGTGCTCCCTCACTAAAGGGAAGGA
AAGGAAGCTGGGCGTCCTCTGGGCCCCCCAACACACGTCCCATTTAGCCCTGCACAGCGGTCTCCTTCCCCTAAG
CCAGCACTGCTGCTCCCTGGAGCCCGGGAAGGAGGCTGCCTGGCTGGAGGCCCGAGCCGATGGCGCCTGTGCTGA
GGATTTGTGCTGTGATTTGGGCAAATCATTCCAGGTCTTTGGGCCTCCACCCCCTTGTCTCTAGTGGACATTTGA
GATCAGAGAGCACCACAGGGCTGGCTTTGTGCCCTAACCCCTGGGATGCAGCCTGCCTTTCCATAAAGTCACCTA
GGTGAGGATAGGCGCGGGAGCCTCGGCATGACACCATGGAGATCGGGGCCCTCTTCCCAGTGGGTTCACTCCTTT
TCACACCTGCTGGGTCCCTCCTCACCCAGCAGGCCTGGTCCACCTCTCATTGCAAGCCCCAAGCACTGAGCCAGC
AGGTGCCAGGGAGCCACCCGCCCCCCATCGCTTCTGCACACCTCAGACTCACCCCATCACCTTGGCAGCAAAGCA
CTGGCTCTGCCGTCTGACCCCTGATCCAGGCAGCCCCCTCTGCAGAGAAAAGGGTTGGGGAGAAGCCTCTGCAGT
CCTGGAAGATGTGGGGTGCTGGGTGAGAGGCATCAGCCCCCACAAGTATGTTTTTGTGTCTTAAGATAGCAGTTT
ACTTTGAAAAAGTGAAAAAGGCTTCCGGGCTGTCCTCTGCCCAGTGAGATGGAGGACGCTAGAGAAAGTGCTGAG
TGTCCCGAGAGAGGCCCCCGAGCCAGTGCATGGAGGTCCTTCGGCCTGGCTCAGCTGGGCTGCAGGATGCCCACT
TTGAGGAGGGAGGCACAGGGCTTGGGCGAGGGGCAGAGGCCATCAGAACTGCCCGGCTTTTTTGGAAACTGAGGA
CCCAACAACTAACCACGTTTACACGACTTGAGTTTTGAACCCCGATTAATGTCTGTACGTCACCTTTCCTAGTTC
TGACCCTGAGCCCTGGGGAACAGGAAAGCGTGGCTGGCCTCTTGCACTGCTTTGTCTCCAAAATAAACTACTGAA
ATCAAACCGCA

FIGURE 4068A

GTATTCTCCGCCGCCCCCACGCCCTCGAGGTCCCCGCCACCGAACCAGCGGCGGAGCCCGCCCGCGCCTCCCGCG
GCATTCCCGCACCGGATCGCTCCTCGCTGGGGCGGGACCTGGCCTGGCGGCTCTGGTCACTATGAGTGAAACATC
TTTCAACCTAATATCAGAAAAATGTGACATTCTATCCATTCTTCGGGACCATCCTGAAAACAGGATTTACCGGAG
GAAAATCGAGGAACTCAGCAAAAGGTTCACCGCCATCCGCAAGACCAAAGGGGATGGGAACTGCTTCTACAGGGC
CTTGGGCTATTCCTACCTGGAGTCCCTGCTGGGGAAGAGCAGGGAGATCTTCAAGTTCAAAGAACGCGTACTGCA
GACCCCAAATGACCTTCTGGCTGCTGGCTTTGAGGAGCACAAGTTCAGAAACTTCTTCAATGCTTTTTACAGTGT
GGTGGAACTGGTAGAGAAGGATGGCTCAGTGTCCAGCCTGCTGAAGGTGTTCAACGACCAGAGTGCCTCGGACCA
CATCGTGCAGTTCCTGCGCCTGCTCACGTCGGCCTTCATCAGGAACCGAGCAGACTTCTTCCGGCACTTCATTGA
TGAGGAGATGGACATCAAAGACTTCTGCACTCACGAAGTAGAGCCCATGGCCACGGAGTGTGACCACATCCAGAT
CACGGCGTTGTCGCAGGCCCTGAGCATTGCCCTGCAAGTGGAGTACGTGGACGAGATGGATACCGCCCTGAACCA
CCACGTGTTCCCTGAGGCCGCCACCCCTTCCGTTTACCTGCTCTATAAAACATCCCACTACAACATCCTTTATGC
AGCCGATAAACATTGATTAATTTTAGGCCATGCAGTGGAACCTGTCACCTAATGGGACTGCATTCTGAATGGAAC
ATTCCGGCTCTTCAATTTTTTAAGCAATTTAGACTGTAGCAAGAAAATGTGCAGCCTTTTGGGCAAAGCCCCTGG
GAACGAGGCCTATCCACTATGGACTATGGTAACTTGGTAGGATTTTTAGTATTTATTTTAATGGAGGGACAAATG
CTTTCTAACTGGGCCCCCGACTCCGCACCCCAGTTCGCAGTGAGGCCCTGGGTGGGTCACCTGCCCTCTCTGGAC
TTGTTTCTTCAACTGGAGGAGGTCCCTGCCTATGCTGACATTCCATTGTAGAAAAATGGGGCCTCTGGTGTCTCT
TTACCAGGGGCAGTGCCTCTCTGCGGGGGAGGAAAAGCTCAAGGTTAGCTGTCTTAACCCAAGTGACTTACCAGG
CCTACAAAAGAGTCCAGTCCAGTCACTTGTTGGACTGGGCTCTGACAGATGGCCTATTGAGGTCAACTTGAATGT
GAGGGCTACGGTGTGGTTTCAAACATTCATGATGGATGTATTTTCCTACCCCTAACTTAAGGAGAAAAAAAAAAA
GACTTCCTTTTTTTGCCAAAGTCCAGAAAGGGGCCTTTAGCCTTTAGTAGGAGCTCAAATTGTTGGGGCCCCTCT
ACCTCTCTCAGGGCTAGAACTGCCTGACTCTTGGTGGACGAGCCCTTCAGGGTTCTGCTTTCAGCCCCACCTGGA
CAGAGGCTTACAAGACTAGGGTCTGGACCAGAATCTGTGTATTTCTGTCTGGGACCAGGAAGCCGCAGCTGTCCC
ATCATCCCCAGCAAATCCTAGAAGTGGAGTCTGGATACTTCAAGGATAGAAGTGTTGGCACGCACAGCCATGGAC
CCAGCTGAGCAGAGCAGACGCTTTGCAGGCTGCCCCTGGCTTCTTCCTCCCTTTCCCGCTTCTGCTCTCTTTATG
GACTGGTCAGAGGGTAGGTGGGAAAGAACAGACAAGCCATGGGAAGTTGGCAGTGGGGAGATTTCCACTGTGGAA
ACCGCCTGGGAATTCCGGCCAGCAGCTTCCTCCTTCAGCCACCTGGCCATACCCCTTAAATAAGCCCCTCACCTT
GCTGCCTCAGGACCTTCAAGATTCCATCTGTGGGCTGGCCGGCAAGATGGCACCAGTGGGGACCCACACCCTGGC
TGGGCAGAGGTGCTGCTAGCAACCTCTCTTCCTCTATAAGAGGAAATGGAAAATGCAGGGTGTGGAATTGCCCTT
TGGGGTCCTTCCTTAATTGAAGGCCACCTTCTCACAGGTTTCATTCTGCAGGGATTTACTGGAATCTATTGGTGC
TGCTGCATGAGTCTGCTGACAACCTGACTGCACAAGGACTGGGTAGCAGACTCCTCAGAGTCCTCTTGACACAAA
TGTCAGATTTGTGTCACTCTTCTGCCTTCGTGAAAAGCCAATAGCACTCTCAGATATCAGGGGATTTTAGTTCCA
AGCAGGGACCCTGGTTTCCATACTGCCCTCAGCTGGAGTTTGGATCCAAAGGCTCTGGCTAAGTCATTATGTCAC
TTTTTCACAGGAATGTAAATTTGACTGTCACCTCTGAATTTGTTCAGTGTCCCACCATGGTCTATGAGAAGTACA
CTGGAAGCGTGGGGGGAACACATGACATGATTTGTGAATATCATCATCTTTGCCAGACAAGTCTCCAGGGGATCC
CTGTTCCCAACTGAAAGGTGTGAACGGACACACACAGCCTGGATGACGCCTTGGCTGTTCTAAGGGGCTGTA
AGGTGGGCTCTGGGCCTTCCAGCTAGGCTCTCAAGCACAGCAGAAGCCTCACTGGGCTGCTATGTCTCTGTATTT
GTGGCTTGTGTGGTAGCCTCAGAAGCAGAGCTGTTTGGCAGACTGGCTGGAGAAATTCCCTCTAGGAGACTTGCC
TGTGCTGTGCTTCCAGGTCACAGAGCCCCCGGAAACTCACAGGGGCCCTCTTCCCAGAAAAGAATCTATTCTAT
CACTTCAGAATCAGGACACTCAAGCTCTGGCAGAGGAAGGCCAAGTTACTTTCATGGTCTTACCCTCTGCTTTTC
CCCTTTTTGCAAAAAACCACTGGCCAAATCCGAACCATTGCCCTTGTTTCCCCCACGTTCTCTCTCAGATCTTTG
TCTCGAAGGGAAAACATAGTGGATGAAAAGGTGTGGCAGGCTTTGGCACCTTGTTAAAATTTCTAGTCATCTGTG
GATGTTACCTTGCTTGTCCACAGCAGCCAGTCACCCTGGCCAGTCCCACTTCCTGGATAATTCTCTACCCTCACC
CCACAGAGCCATCTCTCTCCAGACCAAAAGCTGGAAGGAGAGTTGCTTTGAGAGCTTGTTTTTACAACTGCATGT
TTATTATGATACTTTCTCTCCAAAGGAAACTTTTAAATCAATGGGAACAATTAGCAACAGAAAGAGCACAGTCCC
TGCTTTTGACTGGGTTCCTATTTTAAGCACAAATGAGAGCTCTGGAGCCAGAATGCCAGGGTTCTAACTTCAGCA
TTCACTTACTAGCTGTATGATCTTGGCCAAGTCACTTCACCTCCCTGAGCCCCAATTCCCAAGTTTGTGAAATGG
CAACAATACCTATGTGTCACTGGATTATTGGTTAAAACAGAATGAGATTCCTTGTGTGAAAATAGCTATTATACC
TGACACACTCATCGTATGGGCTCTGCAAAGGGATATTCCCCAACCTGTCCTTCCTGACAGGAAGCATAGGGCACT

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FIGURE 4068B

GCAGATGGGGAAGCATGTCACCTTGGCAGTGACTCGGTGGCTTCCCAAGCAGGAGTGTCAGGGGAACCATGAGAG
AGAGTCTAGGAGCAAACACATCACCACCCTGAGCAGATACAGGAGTGGGGAGGGGGCTGTAACTCAGTGAGTGGC
TTCCAGGGGCCCCAGGCCCTGCTGGATGTGGGCCAAGCCCTACAGCTTCCCTAGGCAGTAAGTAAAAACATTCTC
CTAGCATTAAAATGGTTTCCAT

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FIGURE 4069

CCGGAACTGCAGTTGCTGCTGCAGCTGAGGTACAGCGGCGGTTTCTGAGGTTCTTCACTCGCGACTGACGGAGCT
GCGGTGGCGTCTCCACACGCAACCATGAAGTTGAAGGACACAAAATCAAGGCCAAAGCAGTCAAGCTGTGGCAAA
TTTCAGACAAAGGGAATCAAAGTTGTGGGAAAATGGAAGGAAGTGAAGATTGACCCAAATATGTTTGCAGATGGA
CAGATGGATGACTTGGTGTGCTTTGAGGAATTGACAGATTACCAGTTGGTCTCCCCTGCCAAGAATCCCTCCAGT
CTCTTCTCAAAGGAAGCACCCAAGAGAAAGGCACAAGCTGTTTCAGAAGAAGAGGAGGAGGAGGAGGGAAAGTCT
AGCTCACCAAAGAAAAAGATCAAGTTGAAGAAAAGTAAAAATGTAGCAACTGAAGGAACCAGTACCCAGAAAGAA
TTTGAAGTGAAAGATCCTGAGCTGGAGGCCCAGGGAGATGACATGGTTTGTGATGATCCGGAGGCTGGGGAGATG
ACATCAGAAAACCTGGTCCAAACTGCTCCAAAAAAGAAGAAAAATAAAGGGAAAAAAGGGTTGGAGCCTTCTCAG
AGCACTGCTGCCAAGGTGCCCAAAAAAGCGAAGACATGGATTCCTGAAGTTCATGATCAGAAAGCAGATGTGTCA
GCTTGGAAGGACCTGTTTGTTCCCAGGCCGGTTCTCCGAGCACTCAGCTTTCTAGGCTTCTCTGCACCCACACCA
ATCCAAGCCCTGACCTTGGCACCTGCCATCCGTGACAAACTGGACATCCTTGGGGCTGCTGAGACAGGAAGTGGG
AAAACTCTTGCCTTTGCCATCCCAATGATTCATGCGGTGTTGCAGTGGCAGAAGAGGAATGCTGCCCCTCCTCCA
AGTAACACCGAAGCACCACCTGGAGAGACCAGAACTGAGGCCGGAGCTGAGACTAGATCACCAGGCAAGGCTGAA
GCTGAGTCTGATGCATTGCCTGACGATACTGTAATTGAGAGTGAAGCACTGCCCAGTGATATTGCAGCCGAGGCC
AGAGCCAAGACTGGAGGCACTGTCTCAGACCAGGCGTTGCTCTTTGGTGACGATGATGCTGGTGAAGGGCCTTCT
TCCCTGATCAGGGAGAAACCTGTTCCCAAACAGAATGAGAATGAGGAGGAAATCTTGATAAAGAGCAGACTGGA
AATCTAAAACAGGAGTTGGATGACAAAAGCGCCACCTGTAAGGCATATCCAAAGCGTCCTCTGCTTGGACTGGTT
CTGACTCCCACTCGAGAGCTGGCCGTCCAGGTCAAACAGCACATTGATGCTGTGGCCAGGTTTACAGGAATTAAA
ACTGCTATTTTGGTTGGTGGAATGTCCACGCAGAAACAGCAGAGGATGCTGAACCGTCGTCCTGAGATTGTGGTT
GCTACTCCAGGCCGGCTGTGGGAATTAATTAAAGAAAAGCATTATCATTTGAGGAACCTTCGGCAGCTCAGGTGC
CTGGTAGTGGATGAGGCTGACCGGATGGTTGAGAAAGGCCATTTTGCTGAGCTCTCACAGCTGCTAGAGATGCTC
AATGACTCCCAATACAACCCAAAGAGACAAACGCTTGTTTTTTCTGCCACACTCACCCTGGTGCATCAGGCTCCT
GCTCGAATCCTTCATAAGAAGCACACCAAGAAAATGGATAAAAACAGCCAAACTTGACCTCCTTATGCAGAAAATT
GGCATGAGGGGCAAGCCCAAGGTCATTGACCTCACAAGGAATGAGGCCACGGTGGAGACGCTAACAGAGACCAAG
ATCCATTGTGAGACTGATGAGAAAGACTTCTACTTGTACTACTTCCTGATGCAGTATCCAGGCCGCAGCTTAGTG
TTTGCCAACAGTATCTCCTGCATCAAACGCCTCTCTGGGCTCCTCAAAGTCCTTGATATCATGCCCTTGACCCTG
CATGCCTGTATGCACCAGAAGCAGAGGCTCAGAAACCTGGAGCAGTTTGCCCGTCTGGAAGACTGTGTTCTCTTG
GCAACAGATGTGGCAGCTCGGGGTCTGGATATTCCTAAAGTCCAGCATGTCATCCATTACCAGGTCCCACGTACC
TCGGAGATTTATGTCCACCGAAGTGGTCGAACTGCTCGAGCTACCAATGAAGGCCTCAGTCTGATGCTCATTGGG
CCTGAGGATGTGATCAACTTTAAGAAGATTTACAAAACGCTCAAGAAAGATGAGGATATCCCACTGTTCCCCGTG
CAGACAAAATACATGGATGTGGTCAAGGAGCGAATCCGTTTAGCTCGACAGATTGAGAAATCTGAGTATCGGAAC
TTCCAGGCTTGCCTGCACAACTCTTGGATTGAGCAGGCAGCAGCTGCCCTGGAGATTGAGCTGGAAGAAGACATG
TATAAGGGAGGAAAAGCTGACCAGCAAGAAGAACGTCGGAGACAAAAGCAGATGAAGGTTCTGAAGAAGGAGCTG
CGCCACCTGCTGTCCCAGCCACTGTTTACGGAGAGCCAGAAAACCAAGTATCCCACTCAGTCTGGCAAGCCGCCC
CTGCTTGTGTCTGCCCCAAGTAAGAGCGAGTCTGCTTTGAGCTGTCTCTCCAAGCAGAAGAAGAAGAAGACAAAG
AAGCCGAAGGAGCCACAGCCGGAACAGCCACAGCCAAGTACAAGTGCAAATTAACTGGTCAAGTGTGTCAGTGAC
TGCACATTGGTTTCTGTTCTCTGGCTATTTGCAAAACCTCTCCCACCCTTGTGTTTCACTCCACCACCAACCCCA
GGTAAAAAAGTCTCCCTCTCTTCCACTCACACCCATAGCGGGAGAGACCTCATGCAGATTTGCATTGTTTTGGAG
TAAGAATTCAATGCAGCAGCTTAATTTTTCTGTATTGCAGTGTTTATAGGCTTCTTGTGTGTTAAACTTGATTTC
ATAAATTAAAAACAATGGTCAGAAAAAAAAAAAAAAAAAAA

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FIGURE 4070

MKLKDTKSRPKQSSCGKFQTKGIKVVGKWKEVKIDPNMFADGQMDDLVCFEELTDYQLVSPAKNPSSLFSKEAPK
RKAQAVSEEEEEEEGKSSSPKKKIKLKKSKNVATEGTSTQKEFEVKDPELEAQGDDMVCDDPEAGEMTSENLVQT
APKKKKNKGKKGLEPSQSTAAKVPKKAKTWIPEVHDQKADVSAWKDLFVPRPVLRALSFLGFSAPTPIQALTLAP
AIRDKLDILGAAETGSGKTLAFAIPMIHAVLQWQKRNAAPPPSNTEAPPGETRTEAGAETRSPGKAEAESDALPD
DTVIESEALPSDIAAEARAKTGGTVSDQALLFGDDDAGEGPSSLIREKPVPKQNENEEENLDKEQTGNLKQELDD
KSATCKAYPKRPLLGLVLTPTRELAVQVKQHIDAVARFTGIKTAILVGGMSTQKQQRMLNRRPEIVVATPGRLWE
LIKEKHYHLRNLRQLRCLVVDEADRMVEKGHFAELSQLLEMLNDSQYNPKRQTLVFSATLTLVHQAPARILHKKH
TKKMDKTAKLDLLMQKIGMRGKPKVIDLTRNEATVETLTETKIHCETDEKDFYLYYFLMQYPGRSLVFANSISCI
KRLSGLLKVLDIMPLTLHACMHQKQRLRNLEQFARLEDCVLLATDVAARGLDIPKVQHVIHYQVPRTSEIYVHRS
GRTARATNEGLSLMLIGPEDVINFKKIYKTLKKDEDIPLFPVQTKYMDVVKERIRLARQIEKSEYRNFQACLHNS
WIEQAAAALEIELEEDMYKGGKADQQEERRRQKQMKVLKKELRHLLSQPLFTESQKTKYPTQSGKPPLLVSAPSK
SESALSCLSKQKKKKTKKPKEPQPEQPQPSTSAN

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FIGURE 4071

GCTGAAGTTGAGGATCTCTTACTCTCTAGGCCACGGAATTAACCCGAGCAGGCATGGAGGCCTCTGCTCTCACCT
CATCAGCAGTGACCAGTGTGGCCAAAGTGGTCAGGGTGGCCTCTGGCTCTGCCGTAGTTTTGCCCCTGGCCAGGA
TTGCTACAGTTGTGATTGGAGGAGXXXXXXXXXXXXXXXXCTGTGCCCATGGTGCTCAGTGCCATGGGCTTCACTG
CGGCGGGAATCGCCTCGTCCTCCATAGCAGCCAAGATGATGTCCGCGGCGGCCATTGCCAATGGGGGTGGAGTTG
CCTCGGGCAGCCTTGTGGCTACTCTGCAGTCACTGGGAGCAACTGGACTCTCCGGATTGACCAAGTTCATCCTGG
GCTCCATTGGGTCTGCCATTGCGGCTGTCATTGCGAGGTTCTACTAGCTCCCTGCCCCTCGCCCTGCAGAGAAGA
GAACCATGCCAGGGGAGAAGGCACCCAGCCATCCTGACCCAGCGAGGAGCCAACTATCCCAAATATACCTGGGGT
GAAATATACCAAATTCTGCATCTCCAGAGGAAAATAAGAAATAAAGATGAATTGTTGCAACTCTT

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FIGURE 4072

ACTGTACACATGCTAGGGTCCAGGACAGCAGGACCAAGCCAGCAGAAACAGCCTGAGCCCACCGCAGACTGGCCT
GGCTATACTGGACAATGCCACTCCTCCTGTACACCTGTCTTCTCTGGCTGCCCACCAGCGGCCTCTGGACCGTCC
AGGCCATGGATCCTAACGCTGCTTATGTGAACATGAGTAACCATCACCGGGGCCTGGCTTCAGCCAACGTTGACT
TTGCCTTCAGCCTGTATAAGCACCTAGTGGCCTTGAGTCCCAAAAAGAACATTTTCATCTCCCCTGTGAGCATCT
CCATGGCCTTAGCTATGCTGTCCCTGGGCACCTGTGGCCACACACGGGCCCAGCTTCTCCAGGGCCTGGGTTTCA
ACCTCACTGAGAGGTCTGAGACTGAGATCCACCAGGGTTTCCAGCACCTGCACCAACTCTTTGCAAAGTCAGACA
CCAGCTTAGAAATGACCATGGGCAATGCCTTGTTTCTTGATGGCAGCCTGGAGTTGCTGGAGTCATTCTCAGCAG
ACATCAAGCACTACTATGAGTCAGAGGTCTTGGCTATGAATTTCCAGGACTGGGCAACAGCCAGCAGACAGATCA
ACAGCTATGTCAAGAATAAGACACAGGGGAAAATTGTCGACTTGTTTTCAGGGCTGGATAGCCCAGCCATCCTCG
TCCTGGTCAACTATATCTTCTTCAAAGGCACATGGACACAGCCCTTTGACCTGGCAAGCACCAGGGAGGAGAACT
TCTATGTGGACGAGACAACTGTGGTGAAGGTGCCCATGATGTTGCAGTCGAGCACCATCAGTTACCTTCATGACT
CGGAGCTCCCCTGCCAGCTGGTGCAGATGAACTACGTGGGCAATGGGACTGTCTTCTTCATCCTTCCGGACAAGG
GGAAGATGAACACAGTCATCGCTGCACTGAGCCGGGACACGATTAACAGGTGGTCCGCAGGCCTGACCAGCAGCC
AGGTGGACCTGTACATTCCAAAGGTCACCATCTCTGGAGTCTATGACCTCGGAGATGTGCTGGAGGAAATGGGCA
TTGCAGACTTGTTCACCAACCAGGCAAATTTCTCACGCATCACCCAGGACGCCCAGCTGAAGTCATCAAAGGTGG
TCCATAAAGCTGTGCTGCAACTCAATGAGGAGGGTGTGGACACAGCTGGCTCCACTGGGGTCACCCTAAACCTGA
CGTCCAAGCCTATCATCTTGCGTTTCAACCAGCCCTTCATCATCATGATCTTCGACCACTTCACCTGGAGCAGCC
TTTTCCTGGCGAGGGTTATGAACCCAGTGTAAGAGACCACCCACCCAGAGCCTCAGCACTGTCTGACTTTGGGAA
CCAGGGATCCCACAGAAATGTTTTGGAGAGCGGGAGGTTTCCCCCAATCTCCTCCAAGTTCTTCTCCCTCCAACC
AGAGTTGTGTCTAACTTTAGGCATCTTTTAATAAATGTCATTGCGACTCTG

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FIGURE 4073

GACAATGCCGTCTTCTGTCTCGTGGGGCATCCTCCTGCTGGCAGGCCTGTGCTGCCTGGTCCCTGTCTCCCTGGC
TGAGGATCCCCAGGGAGATGCTGCCCAGAAGACAGATACATCCCACCATGATCAGGATCACCCAACCTTCAACAA
GATCACCCCCAACCTGGCTGAGTTCGCCTTCAGCCTATACCGCCAGCTGGCACACCAGTCCAACAGCACCAATAT
CTTCTTCTCCCCAGTGAGCATCGCTACAGCCTTTGCAATGCTCTCCCTGGGGACCAAGGCTGACACTCACGATGA
AATCCTGGAGGGCCTGAATTTCAACCTCACGGAGATTCCGGAGGCTCAGATCCATGAAGGCTTCCAGGAACTCCT
CCGTACCCTCAACCAGCCAGACAGCCAGCTCCAGCTGACCACCGGCAATGGCCTGTTCCTCAGCGAGGGCCTGAA
GCTAGTGGATAAGTTTTTGGAGGATGTTAAAAAGTTGTACCACTCAGAAGCCTTCACTGTCAACTTCGGGGACAC
CGAAGAGGCCAAGAAACAGATCAACGATTACGTGGAGAAGGGTACTCAAGGGAAAATTGTGGATTTGGTCAAGGA
GCTTGACAGAGACACAGTTTTTGCTCTGGTGAATTACATCTTCTTTAAAGGCAAATGGGAGAGACCCTTTGAAGT
CAAGGACACCGAGGAAGAGGACTTCCACGTGGACCAGGCGACCACCGTGAAGGTGCCTATGATGAAGCGTTTAGG
CATGTTTAACATCCAGCACTGTAAGAAGCTGTCCAGCTGGGTGCTGCTGATGAAATACCTGGGCAATGCCACCGC
CATCTTCTTCCTGCCTGATGAGGGGAAACTACAGCACCTGGAAAATGAACTCACCCACGATATCATCACCAAGTT
CCTGGAAAATGAAGACAGAAGGTCTGCCAGCTTACATTTACCCAAACTGTCCATTACTGGAACCTATGATCTGAA
GAGCGTCCTGGGTCAACTGGGCATCACTAAGGTCTTCAGCAATGGGGCTGACCTCTCCGGGGTCACAGAGGAGGC
ACCCCTGAAGCTCTCCAAGGCCGTGCATAAGGCTGTGCTGACCATCGACGAGAAAGGGACTGAAGCTGCTGGGGC
CATGTTTTTAGAGGCCATACCCATGTCTATCCCCCCCGAGGTCAAGTTCAACAAACCCTTTGTCTTCTTAATGAT
TGAACAAAATACCAAGTCTCCCCTCTTCATGGGAAAAGTGGTGAATCCCACCCAAAAATAACTGCCTCTCGCTCC
TCAACCCCTCCCCTCCATCCCTGGCCCCCTCCCTGGATGACATTAAAGAAGGGTTGAGCTGG

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FIGURE 4074

AGAACAAAGAACAGCCACCATGCAGCTCTTCCTCCTCTTGTGCCTGGTGCTTCTCAGCCCTCAGGGGGCCTCCCT
TCACCGCCACCACCCCCGGGAGATGAAGAAGAGAGTCGAGGACCTCCATGTAGGTGCCACGGTGGCCCCCAGCAG
CAGAAGGGACTTTACCTTTGACCTCTACAGGGCCTTGGCTTCCGCTGCCCCCAGCCAGAGCATCTTCTTCTCCCC
TGTGAGCATCTCCATGAGCCTGGCCATGCTCTCCCTGGGGGCTGGGTCCAGCACAAAGATGCAGATCCTGGAGGG
CCTGGGCCTCAACCTCCAGAAAAGCTCAGAGAAGGAGCTGCACAGAGGCTTTCAGCAGCTCCTTCAGGAACTCAA
CCAGCCCAGAGATGGCTTCCAGCTGAGCCTCGGCAATGCCCTTTTCACCGACCTGGTGGTAGACCTGCAGGACAC
CTTCGTAAGTGCCATGAAGACGCTGTACCTGGCAGACACTTTCCCTACCAACTTTAGGGACTCTGCAGGGGCCAT
GAAGCAGATCAATGATTATGTGGCAAAGCAAACGAAGGGCAAGATTGTGGACTTGCTTAAGAACCTCGATAGCAA
TGCGGTCGTGATCATGGTGAATTACATCTTCTTTAAAGCTAAGTGGGAGACAAGCTTCAACCACAAAGGCACCCA
AGAGCAAGACTTCTACGTGACCTCGGAGACTGTGGTGCGGGTACCCATGATGAGCCGCGAGGATCAGTATCACTA
CCTCCTGGACCGGAACCTCTCCTGCAGGGTGGTGGGGGGTCCCCTACCAAGGCAATGCCACGGCTTTGTTCATTCT
CCCCAGTGAGGGAAAGATGCAGCAGGTGGAGAATGGACTGAGTGAGAAAACGCTGAGGAAGTGGCTTAAGATGTT
CAAAAAGAGGCAGCTCGAGCTTTACCTTCCCAAATTCTCCATTGAGGGCTCCTATCAGCTGGAGAAAGTCCTCCC
CAGTCTGGGGATCAGTAACGTCTTCACCTCCCATGCTGATCTGTCCGGCATCAGCAACCACTCAAATATCCAGGT
GTCTGAGATGGTGCACAAAGCTGTGGTGGAGGTGGACGAGTCGGGAACCAGAGCAGCGGCAGCCACGGGGACAAT
ATTCACTTTCAGGTCGGCCCGCCTGAACTCTCAGAGGCTAGTGTTCAACAGGCCCTTTCTGATGTTCATTGTGGA
TAACAACATCCTCTTCCTTGGCAAAGTGAACCGCCCCTGA

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FIGURE 4075

CAGAGTTGAGA<u>ATG</u>GAGAGAATGTTACCTCTCCTGGCTCTGGGGCTCTTGGCGGCTGGGTTCTGCCCTGCTGTCC
TCTGCCACCCTAACAGCCCACTTGACGAGGAGAATCTGACCCAGGAGAACCAAGACCGAGGGACACACGTGGACC
TCGGATTAGCCTCCGCCAACGTGGACTTCGCTTTCAGCCTGTACAAGCAGTTAGTCCTGAAGGCCCCTGATAAGA
ATGTCATCTTCTCCCCACTGAGCATCTCCACCGCCTTGGCCTTCCTGTCTCTGGGGGCCCATAATACCACCCTGA
CAGAGATTCTCAAAGGCCTCAAGTTCAACCTCACGGAGACTTCTGAGGCAGAAATTCACCAGAGCTTCCAGCACC
TCCTGCGCACCCTCAATCAGTCCAGCGATGAGCTGCAGCTGAGTATGGGAAATGCCATGTTTGTCAAAGAGCAAC
TCAGTCTGCTGGACAGGTTCACGGAGGATGCCAAGAGGCTGTATGGCTCCGAGGCCTTTGCCACTGACTTTCAGG
ACTCAGCTGCAGCTAAGAAGCTCATCAACGACTACGTGAAGAATGGAACTAGGGGGAAAATCACAGATCTGATCA
AGGACCTTGACTCGCAGACAATGATGGTCCTGGTGAATTACATCTTCTTTAAAGCCAAATGGGAGATGCCCTTTG
ACCCCCAAGATACTCATCAGTCAAGGTTCTACTTGAGCAAGAAAAAGTGGGTAATGGTGCCCATGATGAGTTTGC
ATCACCTGACTATACCTTACTTCCGGGACGAGGAGCTGTCCTGCACCGTGGTGGAGCTGAAGTACACAGGCAATG
CCAGCGCACTCTTCATCCTCCCTGATCAAGACAAGATGGAGGAAGTGGAAGCCATGCTGCTCCCAGAGACCCTGA
AGCGGTGGAGAGACTCTCTGGAGTTCAGAGAGATAGGTGAGCTCTACCTGCCAAAGTTTTCCATCTCGAGGGACT
ATAACCTGAACGACATACTTCTCCAGCTGGGCATTGAGGAAGCCTTCACCAGCAAGGCTGACCTGTCAGGGATCA
CAGGGGCCAGGAACCTAGCAGTCTCCCAGGTGGTCCATAAGGCTGTGCTTGATGTATTTGAGGAGGGCACAGAAG
CATCTGCTGCCACAGCAGTCAAAATCACCCTCCTTTCTGCATTAGTGGAGACAAGGACCATTGTGCGTTTCAACA
GGCCCTTCCTGATGATCATTGTCCCTACAGACACCCAGAACATCTTCTTCATGAGCAAAGTCACCAATCCCAAGC
AAGCC<u>TAG</u>AGCTTGCCATCAAGCAGTGGGGCTCTCAGTAAGGAACTTGGAATGCAAGCTGGATGCCTGGGTCTCT
GGGCACAGCCTGGCCCCTGTGCACCGAGTGGCCATGGCATGTGTGGCCCTGTCTGCTTATCCTTGGAAGGTGACA
GCGATTCCCTGTGTAGCTCTCACATGCACAGGGGCCCATGGACTCTTCAGTCTGGAGGGTCCTGGGCCTCCTGAC
AGCAATAAATAATTTCGTTGG

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FIGURE 4076

MERMLPLLALGLLAAGFCPAVLCHPNSPLDEENLTQENQDRGTHVDLGLASANVDFAFSLYKQLVLKAPDKNVIF
SPLSISTALAFLSLGAHNTTLTEILKGLKFNLTETSEAEIHQSFQHLLRTLNQSSDELQLSMGNAMFVKEQLSLL
DRFTEDAKRLYGSEAFATDFQDSAAAKKLINDYVKNGTRGKITDLIKDLDSQTMMVLVNYIFFKAKWEMPFDPQD
THQSRFYLSKKKWVMVPMMSLHHLTIPYFRDEELSCTVVELKYTGNASALFILPDQDKMEEVEAMLLPETLKRWR
DSLEFREIGELYLPKFSISRDYNLNDILLQLGIEEAFTSKADLSGITGARNLAVSQVVHKAVLDVFEEGTEASAA
TAVKITLLSALVETRTIVRFNRPFLMIIVPTDTQNIFFMSKVTNPKQA

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FIGURE 4077

TTTCCGCGCTACCTACAGAGGGGTCCATACAGCGTCGTTCTGGATTCCCGTCGTAACTTAAAGGGAAACTTTCAC
A<u>ATG</u>TCTGGAGCGCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGTAGCAGGAACCCACTT
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTATTGCTATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGAAGCCACTCCAATTGC
TGGTCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGACTTCTGGGAGCCAAGGCTTCTTGTGGTTAC
TGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGCGCTATGTGGACATTGCCATTCCATGCAACAACCAGGGAGCTCGCTCAGTGGGTTTGATGTG
GTGGACGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCTCGTGAACACCTATGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTACTGAAAAGGCAGTGACCAAGGA
GGAATTTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTAAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTCAGTAGTTCCCTACTGAAGACAGGAGTGCTCAGCCTGCCATGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCT<u>TAA</u>GCTGTTCTTGC
ATAGGCTCTTAAGCAACACGGAAAAATGATTGGCGGAAAATAAACATCAGTTTCT

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FIGURE 4078

MSGALDVLQMKEEDVLKFLVAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIIAIENPADVS
VISSRNTGQRAVLKFAAATEATPIAGHFTPGTFTNQIQADFWEPRLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPLRYVDIAIPCNNQGARSVGLMWWTLAREVLRMRGTISREHLWEVMPDLYFYRDPEEIEKEEQAATEKAVTKE
EFQGEWTAPAPEFTATKPEVADWSEGVQVPSVPIQSSLLKTGVLSLPWKTGLQLPLLRPLNGVGATTDWS

4421/6881
FIGURE 4079

CTTGAGAGGCTCTGGCTCTTGCTTCTTAGGCGGCCCGAGGACGCC**ATG**GCCGAGTGCCCGACACTCGGGGAGGCA
GTCACCGACCACCCGGACCGCCTGTGGGCCTGGGAGAAGTTCGTGTATTTGGACGAGAAGCAGCACGCCTGGCTG
CCCTTAACCATCGAGATAAAGGATAGGTTACAGTTACGGGTGCTCTTGCGTCGGGAAGACGTCGTCCTGGGGAGG
CCTATGACCCCCACCCAGATAGGCCCAAGCCTGCTGCCTATCATGTGGCAGCTCTACCCTGATGGACGATACCGA
TCCTCAGACTCCAGTTTCTGGCGCTTAGTGTACCACATCAAGATTGACGGCGTGGAGGACATGCTTCTCGAGCTG
CTGCCAGATGAC**TGA**TGTATGGTCTTGGCAGCACCTGTCTCCTTTCACCCCAGGGCCTGAGCCTGGCCAGCCTAC
AATGGGGATGTTGTGTTTCTGTTCACCTTCGTTTACTATGCCTGTGTCTTCTCCACCACGCTGGGGTCTGGGAGG
AATGGACAGACAGAGGATGAGCTCTACCCAGGGCCTGCAGGACCTGCCTGTAGCCCACTCTGCTCGCCTTAGCAC
TACCACTCCTGCCAAGGAGGATTCCATTTGGCAGAGCTTCTTCCAGGTGCCCAGCTATACCTGTGCCTCGGCTTT
TCTCAGCTGGATGATGGTCTTCAGCCTCTTTCTGTCCCTTCTGTCCCTCACAGCACTAGTATTTCATGTTGCACA
CCCACTCAGCTCCGTGAACTTGTGAGAACACAGCCGATTCACCTGAGCAGGACCTCTGAAACCCTGGACCAGTGG
TCTCACATGGTGCTACGCCTGCATGTAAACACGCCTGCAAACGCTGCCTGCCGGTAAACACGCCTGCAAACGCTG
CCTGCCCGTAAACACGCCTGCAAACGCTGCCTGCCCACACAGGTTCACGTGCAGCTCAAGGAAAGGCCTGAAAGG
AGCCCTTATCTGTGCTCAGGACTCAGAAGCCTCTGGGTCAGTGGTCCACATCCCGGGACGCAGCAGGAGGCCAGG
CCGGCGAGCCCTGTGGATGAGCCCTCAGAACCCTTGGCTTGCCCACGTGGAAAAGGGATAGAGGTTGGGTTTCCC
CCCTTTATAGATGGTCACGCACCTGGGTGTTACAAAGTTGTATGTGGCATGAATACTTTTTGTAATGATTGATTA
AATGCAAGATAGTTTATCTAACTTCGTGCGCAATCAGCTTCTATCCTTGACTTAGATTCTGGTGGAGAGAAGTGA
GAATAGGCAGCCCCCAAATAAAAAATATTCATGGAAAAAAAAAAAAAAA

4422/6881
FIGURE 4080

MAECPTLGEAVTDHPDRLWAWEKFVYLDEKQHAWLPLTIEIKDRLQLRVLLRREDVVLGRPMTPTQIGPSLLPIM
WQLYPDGRYRSSDSSFWRLVYHIKIDGVEDMLLELLPDD

4423/6881
FIGURE 4081

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TGAAAATGCCTCGTGTAAAAGCAGCTCAAGCTGGAAGACAGAGCTCTGCAAAGAGACATCTTGCAGAACAATTTG
CAGTTGGAGAGATAATAACTGACATGGCAAAAAAGGAATGGAAAGTAGGATTACCCATTGGCCAAGGAGGCTTTG
GCTGTATATATCTTGCTGATATGAATTCTTCAGAGTCAGTTGGCAGTGATGCACCTTGTGTTGTAAAAGTGGAAC
CCAGTGACAATGGACCTCTTTTTACTGAATTAAAGTTCTACCAACGAGCTGCAAAACCAGAGCAAATTCAGAAAT
GGATTCGTACCCGTAAGCTGAAGTACCTGGGTGTTCCTAAGTATTGGGGGTCTGGTCTACATGACAAAAATGGAA
AAAGTTACAGGTTATGATAATGGATCGCTTTGGGAGTGACCTTCAGAAAATATATGAAGCAAATGCCAAAAGGT
TTTCTCGGAAAACTGTCTTGCAGCTAAGCTTAAGAATTCTGGATATTCTGGAATATATTCACGAGCATGAGTATG
TGCATGGAGATATCAAGGCCTCAAATCTTCTTCTGAACTACAAGAATCCTGACCAGGTGTACTTGGTAGATTATG
GCCTTGCTTATCGGTACTGCCCAGAAGGAGTTCATAAAGAATACAAAGAAGACCCCAAAAGATGTCACGATGGCA
CTATTGAATTCACGAGCATCGATGCACACAATGGCGTGGCCCCATCAAGACGTGGTGATTTGGAAATACTTGGTT
ATTGCATGATCCAATGGCTTACTGGCCATCTTCCTTGGGAGGATAATTTGAAAGATCCTAAATATGTTAGAGATT
CCAAAATTAGATACAGAGAAAATATTGCAAGTTTGATGGACAAATGTTTTCCTGAGAAAAACAAACCAGGTGAAA
TTGCCAAATACATGGAAACAGTGAAATTACTAGACTACACTGAAAAACCTCTTTATGAAAATTTACGTGACATTC
TTTTGCAAGGACTAAAAGCTATAGGAAGTAAGGATGATGGCAAATTGGACCTCAGTGTTGTGGAGAATGGAGGTT
TGAAAGCAAAAACAATAACAAAGAAGCGAAAGAAAGAAATTGAAGAAAGCAAGGAACCTGGTGTTGAAGATACGG
AATGGTCAAACACACAGACAGAGGAGGCCATACAGACCCGTTCAAGAACCAGAAAGAGAGTCCAGAAGTAATTCA
GATGCTGTGAACCAGATTTCCTTTTCTTTGTTTCTTTTGACTTTTTTCTCCTTTTCTATTTGAACTGTTTTATT
TTCCTGTGAGTCTTGCGAGGTGGAAGTAATGATTAAATACTCATGTGTTCAGAAAACATAAACTTTTTTTATAAA
AATATTTTGTACAATTCATTAAAGGCTAATTTATGAAATTTGAAAATCTTCAGGTTATACTCCTTAAGTTATCCC
AAAGCCGTGTGTTTGTGATGTTTTGGAGTACATATATATGAAAATTATTATGACACGCACTTTTCTAATCATTGT
ACATTCTCAGAGTGGATAAAAATGTTTGACAAAGTCCTCACTTTTAAGGAAATGCAAAGCTTAAAATAAAACTC
TCTTTTGTTTGATGCA
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FIGURE 4082

<u>ATG</u>CCTGCTGCTGCGCTTCCGAGGCAGGAAGCCGAGGGACCCATGTCTGGGAGCGGAGAACTTTCTGTGAGACAT
CACGCCATCAAATTCTCTGTGGCACGCGCTGGGCAGAAAGGCTACCATCACCGCACTGAGATCAACAAGAAGATC
TATAAGATTGGCCAGGGCTACCTTATCAAGGATGGCAAGCTGATCAAGAACAATGCCTCCACTGACTATGACCTA
TCTGACAAGAGCATCAACCCTCTGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATGACTTTGTCATGCTGAAA
GGCTGTGTGGTGGGAACCAAGAAGCGGGTGCTCACCCTCCGCAAGTCCTTGCTGGTGCAGACGAAGCGGCGGGCT
CTGGAGAAGATTGACCTTAAGTTCATTGACACCACCTCCAAGTTTGGCCATGGCCGCTTCCAGACCATGGAGGAG
AAGAAAGCATTCATGGGACCACTGAAGAAAGACCGAATTGCAAAGGAAGAAGGAGCT<u>TAA</u>

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FIGURE 4083

MPAAALPRQEAEGPMSGSGELSVRHHAIKFSVARAGQKGYHHRTEINKKIYKIGQGYLIKDGKLIKNNASTDYDL
SDKSINPLGGFVHYGEVTNDFVMLKGCVVGTKKRVLTLRKSLLVQTKRRALEKIDLKFIDTTSKFGHGRFQTMEE
KKAFMGPLKKDRIAKEEGA

4426/6881
FIGURE 4084

CTATGATGATTTGTAGGGTGGCACCTTTTTATCCAAGTTACTAGCTACACATCAGTGTTTAAAGAGAAAAAAGTG
ACCTTTCATTTTTTTTTTCTTGAAACTTGAGGAAACAAGATACATACTACTGATTTTTTTTTTTCTTAAAACTAA
ATGCATGACTGCAGAGCGGTAGAGGTGTATATTTTTCATACTGTGGGGCAAAGTATTTGTGCTGCTTTTTGGAGA
TGGACTGGAACGTCTGGTTTCTGTCCCCGGGCCCGGCAGCTACGTCTATTTTCTGTAGAAGGTGCCACAGTGAGA
CCTGGAGCCACCCCTTCCTGCCCTGGCGCCGTTTAGAGCTGGGAGCCCGTGGACTCCCGGCCTGTTTCTACCTTC
TATTCAACCACTCTGACGTGGGGAGACAAGAAGAAATAGAACTTTTTGATAGTGTGGTAAAAACATTGATTTGAA
CTATTTTAGTAAAAGGAGTAACAAACAAGATTGTGATAGTGTCTACTTTGAGCTAGATAAATAAAGGCCTCTTTG
TGAGCCTCCTGGCTGGGTGCTCAGTGCTTGTTTCTGTCGTGGGTGGCAGGGTCAGCAGGCAGAGACAGGGCCAAG
GCCCCTCAAGCACCGCAG**ATG**GGGGCTCAGTCGGGGCCCCTTCCACAGACAGAGCCGTGGCCCCTCAAGGTGGAC
AGTGAGGCCGCTGCTCCTCCAGCTGCCTCTGTCTCATCACAGGCCAGAAGTGGAAAGGGTTTCAAATCCAAGCCC
CCGGGTTCCTGTGTGCGTTCTACGCAGCAAGGCTTCAAAGTTTCAAACTGGTTTGGAACTCAACCAGGTCCTCCA
AAGGAAACCAAGGCAGGCACAGGATGGGGGCAGGCTGGCTTGGCAGGCAGCTGTGCGGATCCACCCAGAGTGCCT
TGGGAGGCAGTGGGGTTGGCTGTGGCTGCTGTGAGCTGCAGCCAGGCCTCTCCCGCGTCCCCAGGGTCTGGAAGG
AGGGCCTCTGCACATTTTATAAGCCACAGACTGCGAAGGCCTGGAGCCCCACCTTCCACCCATAACAAAGAAAGG
GATAGTTTCAGAACTGCTTTTATTTGGATAACTGAC**TGA**AGGAGTCTCATTTGTAACCAAGATGGAATTCACAGT
ATGTTGTTACATTCACACTTAAAAAATATATCTCTATGTACAGGAATTTGCAAAGAGATGTAAACATACATTAAT
TTCCAAGTACATTTCTCCCCTTCTCCCTGGAGGAAAAAAAAAAAGCCATCCAATGAGGCAACCCCTTCAAAATAA
TTTTAATACAAAGGATGCAAACATCAAAAAAAAAAAAAAA

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FIGURE 4085

MGAQSGPLPQTEPWPLKVDSEAAAPPAASVSSQARSGKGFKSKPPGSCVRSTQQGFKVSNWFGTQPGPPKETKAG
TGWGQAGLAGSCADPPRVPWEAVGLAVAAVSCSQASPASPGSGRRASAHFISHRLRRPGAPPSTHNKERDSFRTA
FIWITD

FIGURE 4086

GAAAGAAAGAGGGGAAGAGTATTAAAGACCATTTCTGGCTGGGCAGGGCACTCTCAGCAGCTCAACTGCCCAGCG
TGACCAGTGGCCACCTCTGCAGTGTCTTCCACAACCTGGTCTTGACTCGTCTGCTGAACAAATCCTCTGACCTCA
GGCCGGCTGTGAACGTAGTTCCTGAGAGATAGCAAAC<u>ATG</u>CCCAACAGTGAGCCCGCATCTCTGCTGGAGCTGTT
CAACAGCATCGCCACACAAGGGGAGCTCGTAAGGTCCCTCAAAGCGGGAAATGCGTCAAAGGATGAAATTGATTC
TGCAGTAAAGATGTTGGTGTCATTAAAAATGAGCTACAAAGCTGCCGCGGGGGAGGATTACAAGGCTGACTGTCC
TCCAGGGAACCCAGCACCTACCAGTAATCATGGCCCAGATGCCACAGAAGCTGAAGAGGATTTTGTGGACCCATG
GACAGTACAGACAAGCAGTGCAAAAGGCATAGACTACGATAAGCTCATTGTTCGGTTTGGAAGTAGTAAAATTGA
CAAAGAGCTAATAAACCGAATAGAGAGAGCCACCGGCCAAAGACCACACCACTTCCTGCGCAGAGGCATCTTCTT
CTCACACAGAGATATGAATCAGGTTCTTGATGCCTATGAAAATAAGAAGCCATTTTATCTGTACACGGGCCGGGG
CCCCTCTTCTGAAGCAATGCATGTAGGTCACCTCATTCCATTTATTTTCACAAAGTGGCTCCAGGATGTATTTAA
CGTGCCCTTGGTCATCCAGATGACGGATGACGAGAAGTATCTGTGGAAGGACCTGACCCTGGACCAGGCCTATAG
CTATGCTGTGGAGAATGCCAAGGACATCATCGCCTGTGGCTTTGACATCAACAAGACTTTCATATTCTCTGACCT
GGACTACATGGGGATGAGCTCAGGTTTCTACAAAAATGTGGTGAAGATTCAAAAGCATGTTACCTTCAACCAAGT
GAAAGGCATTTTCGGCTTCACTGACAGCGACTGCATTGGGAAGATCAGTTTTCCTGCCATCCAGGCTGCTCCCTC
CTTCAGCAACTCATTCCCACAGATCTTCCGAGACAGGACGGATATCCAGTGCCTTATCCCATGTGCCATTGACCA
GGATCCTTACTTTAGAATGACAAGGGACGTCGCCCCCAGGATCGGCTATCCTAAACCAGCCCTGCTGCACTCCAC
CTTCTTCCCAGCCCTGCAGGGCGCCCAGACCAAAATGAGTGCCAGCGACCCCAACTCCTCCATCTTCCTCACCGA
CACGGCCAAGCAGATCAAAACCAAGGTCAATAAGCATGCGTTTTCTGGAGGGAGAGACACCATCGAGGAGCACAG
GCAGTTTGGGGGGCAACTGTGATGTGGACGTGTCTTTCATGTACCTGACCTTCTTCCTCGAGGACGACGACAAGCT
CGAGCAGATCAGGAAGGATTACACCAGCGGAGCCATGCTCACCGGTGAGCTCAAGAAGGCACTCATAGAGGTTCT
GCAGCCCTTGATCGCAGAGCACCAGGCCCGGCGCAAGGAGGTCACGGATGAGATAGTGAAAGAGTTCATGACTCC
CCGGAAGCTGTCCTTCGACTTTCAG<u>TAG</u>CACTCGTTTTACATATGCTTATAAAAGAAGTGATGTATCAGTAATGT
ATCAATAATCCCAGCCCAGTCAAAGCACCGCCACCTGTAGGCTTCTGTCTCATGGTAATTACTGGGCCTGGCCTC
TGTAAGCCTGTGTATGTTATCAATACTGTTTCTTCCTGTGAGTTCCATTATTTCTATCTCTTATGGGCAAAGCAT
TGTGGGTAATTGGTGCTGGCTAACATTGCATGGTCGGATAGAGAAGTCCAGCTGTGAGTCTCTCCCCAAAGCAGC
CCCACAGTGGAGCCTTTGGCTGGAAGTCCATGGGCCACCCTGTTCTTGTCCATGGAGGACTCCGAGGGTTCCAAG
TATACTCTTAAGACCCACTCTGTTTAAAAATATATATTCTATGTATGCGTATATGGAATTGAAATGTCATTATTG
TAACCTAGAAAGTGCTTTGAAATATTGATGTGGGGAGGTTTATTGAGCACAAGATGTATTTCAGCCCATGCCCCC
TCCCAAAAAGAAATTGATAAGTAAAAGCTTCGTTATACATTTGACTAAGAAATCACCCAGCTTTAAAGCTGCTTT
TAACAATGAAGATTGAACAGAGTTCAGCAATTTTGATTAAATTAAGACTTGGGGGTGAAACTTTCCAGTTTACTG
AACTCCAGACCATGCATGTAGTCCACTCCAGAAATCATGCTCGCTTCCCTTGGCACACCAGTGTTCTCCTGCCAA
ATGACCCTAGACCCTCTGTCCTGCAGAGTCAGGGTGGCTTTTCCCCTGACTGTGTCCGATGCCAAGGAGTCCTGG
CCTCCGCAGATGCTTCATTTTGACCCTTGGCTGCAGTGGAAGTCAGCACAGAGCAGTGCCCTGGCTGTGTCCCTG
GACGGGTGGACTTAGCTAGGGAGAAAGTCGAGGCAGCAGCCCTCGAGGCCCTCACAGATGTCTAGGCAGGCCTCA
TTTCATCACGCAGCATGTGCAGGCCTGGAAGAGCAAAGCCAAATCTCAGGGAAGTCCTTGGTTGATGTATCTGGG
TCTCCTCTGGAGCACTCTGCCCTCCTGTCACCCAGTAGAGTAAATAAACTTCCTTGGCTCCT

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FIGURE 4087

MPNSEPASLLELFNSIATQGELVRSLKAGNASKDEIDSAVKMLVSLKMSYKAAAGEDYKADCPPGNPAPTSNHGP
DATEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDKELINRIERATGQRPHHFLRRGIFFSHRDMNQVLDAY
ENKKPFYLYTGRGPSSEAMHVGHLIPFIFTKWLQDVFNVPLVIQMTDDEKYLWKDLTLDQAYSYAVENAKDIIAC
GFDINKTFIFSDLDYMGMSSGFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISFPAIQAAPSFSNSFPQIFRDR
TDIQCLIPCAIDQDPYFRMTRDVAPRIGYPKPALLHSTFFPALQGAQTKMSASDPNSSIFLTDTAKQIKTKVNKH
AFSGGRDTIEEHRQFGGNCDVDVSFMYLTFFLEDDDKLEQIRKDYTSGAMLTGELKKALIEVLQPLIAEHQARRK
EVTDEIVKEFMTPRKLSFDFQ

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FIGURE 4088

GGCACGAGGGAGAGCGCAGCGCGCAGCCCGGTGCAGCCCTGGCTTTCCCCTCGCTGCGCGCCCGCGCCCCCTTTC
GCGTCCGCAACCAGAAGCCCAGTGCGGCGCCAGGAGCCGGACCCGCGCCCGCACCGCTCCCGGGACCGCGACCCC
GGCCGCCCAGAG**ATG**ACCGCGACCGAAGCCCTCCTGCGCGTCCTCTTGCTCCTGCTGGCTTTCGGCCACAGCACC
TATGGGGCTGAATGCTTCCCGGCCTGCAACCCCCAAAATGGATTCTGCGAGGATGACAATGTTTGCAGGTGCCAG
CCTGGCTGGCAGGGTCCCCTTTGTGACCAGTGCGTGACCTCTCCCGGCTGCCTTCACGGACTCTGTGGAGAACCC
GGGCAGTGCATTTGCACCGACGGCTGGGACGGGGAGCTCTGTGATAGAGATGTTCGGGCCTGCTCCTCGGCCCCC
TGTGCCAACAACGGGACCTGCGTGAGCCTGGACGATGGCCTCTATGAATGCTCCTGTGCCCCCGGGTACTCGGGA
AAGGACTGCCAGAAAAAGGACGGGCCCTGTGTGATCAACGGCTCCCCCTGCCAGCACGGAGGCACCTGCGTGGAT
GATGAGGGCCGGGCCTCCCATGCCTCCTGCCTGTGCCCCCCTGGCTTCTCAGGCAATTTCTGCGAGATCGTGGCC
AACAGCTGCACCCCCAACCCATGCGAGAACGACGGCGTCTGCACTGACATCGGGGGCGACTTCCGCTGCCGGTGC
CCAGCCGGCTTCATCGACAAGACCTGCAGCCGCCCGGTGACCAACTGCGCCAGCAGCCCGTGCCAGAACGGGGGC
ACCTGCCTGCAGCACACCCAGGTGAGCTACGAGTGTCTGTGCAAGCCCGAGTTCACAGGTCTCACCTGTGTCAAG
AAGCGCGCGCTGAGCCCCCAGCAGGTCACCCGTCTGCCCAACGGCTATGGGCTGGCCTACCGCCTGACCCCTGGG
GTGCACGAGCTGCCGGTGCAGCAGCCGGAGCACCGCATCCTGAAGGTGTCCATGAAAGAGCTCAACAAGAAAACC
CCTCTCCTCACCGAGGGCCAGGCCATCTGCTTCACCATCCTGGGCGTGCTCACCAGCCTGGTGGTGCTGGGCACT
GTGGGTATCGTCTTCCTCAACAAGTGCGAGACCTGGGTGTCCAACCTGCGCTACAACCACATGCTGCGGAAGAAG
AAGAACCTGCTGCTTCAGTACAACAGCGGGGAGGACCTGGCCGTCAACATCATCTTCCCCGAGAAGATCGACATG
ACCACCTTCAGCAAGGAGGCCGGCGACGAGGAGATC**TAA**GCAGCGTTCCCACAGCCCCCTCTAGATTCTTGGAGT
TCCTCAGAGCTTACTATACGCGGTCTGTCCTAATCTTTGTGGTGTTCGCTATCTCTTGTGTCAAATCTGGTGAAC
GCTACGCTTACATATATTGTCTTTGTGCTGCTGTGTGACAAACGCAATGCAAAAACAATCCTCTTTCTCTCTCTT
AATGCATGATACAGAATAATAATAAGAATTTCATCTTTAAAAAAAAAAAAAAAAAAA

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FIGURE 4089

MTATEALLRVLLLLLAFGHSTYGAECFPACNPQNGFCEDDNVCRCQPGWQGPLCDQCVTSPGCLHGLCGEPGQCI
CTDGWDGELCDRDVRACSSAPCANNGTCVSLDDGLYECSCAPGYSGKDCQKKDGPCVINGSPCQHGGTCVDDEGR
ASHASCLCPPGFSGNFCEIVANSCTPNPCENDGVCTDIGGDFRCRCPAGFIDKTCSRPVTNCASSPCQNGGTCLQ
HTQVSYECLCKPEFTGLTCVKKRALSPQQVTRLPNGYGLAYRLTPGVHELPVQQPEHRILKVSMKELNKKTPLLT
EGQAICFTILGVLTSLVVLGTVGIVFLNKCETWVSNLRYNHMLRKKKNLLLQYNSGEDLAVNIIFPEKIDMTTFS
KEAGDEEI

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FIGURE 4090A

CTGGTTTCTTGCCTTAAGGAGCCCATTGCCTTTCCCGCTGAAGTCTAGATGTTGACATGTAATAAAGCGGGCAGC
AGGATGGTGGTGGATGCGGCCAACTCCAATGGGCCTTTCCAGCCCGTGGTCCTTCTCCATATTCGAGATGTTCCT
CCTGCTGATCAAGAGAAGCTTTTTATCCAGAAGTTACGTCAGTGTTGCGTCCTCTTTGACTTTGTTTCTGATCCA
CTAAGTGACCTAAAGTGGAAGGAAGTAAAACGAGCTGCTTTAAGTGAAATGGTAGAATATATCACCCATAATCGG
AATGTGATCACAGAGCCTATTTACCCAGAAGTAGTCCATATGTTTGCAGTTAACATGTTTCGAACATTACCACCT
TCCTCCAATCCTACGGGAGCGGAATTTGACCCGGAGGAAGATGAACCAACGTTAGAAGCAGCCTGGCCTCATCTA
CAGCTTGTTTATGAATTTTTCTTAAGATTTTTAGAGTCTCCAGATTTCCAACCTAATATAGCGAAGAAATATATT
GATCAGAAGTTTGTATTGCAGCTTTTAGAGCTCTTTGACAGTGAAGATCCTCGGGAGAGAGATTTTCTTAAAACC
ACCCTTCACAGAATCTATGGGAAATTCCTAGGCTTGAGAGCTTACATCAGAAAACAGATAAATAATATATTTTAT
AGGTTTATTTATGAAACAGAGCATCATAATGGCATAGCAGAGTTACTGGAAATATTGGGAAGTATAATTAATGGA
TTTGCCTTACCACTAAAAGAAGAGCACAAGATTTTCTTATTGAAGGTGTTACTACCTTTGCACAAAGTGAAATCT
CTGAGTGTCTACCATCCCCAGCTGGCATACTGTGTAGTGCAGTTTTTAGAAAAGGACAGCACCCTCACGGAACCA
GTGGTGATGGCACTTCTCAAATACTGGCCAAAGACTCACAGTCCAAAAGAAGTAATGTTCTTAAACGAATTAGAA
GAGATTTTAGATGTCATTGAACCATCAGAATTTGTGAAGATCATGGAACCCCTCTTCCGGCAGTTGGCCAAATGT
GTCTCCAGCCCACACTTCCAGGTGGCAGAGCGAGCTCTCTATTACTGGAATAATGAATACATCATGAGTTTAATC
AGTGACAACGCAGCGAAGATTCTGCCCATCATGTTTCCTTCCTTGTACCGCAACTCAAAGACCCATTGGAACAAG
ACAATACATGGCTTGATATACAACGCCCTGAAGCTCTTCATGGAGATGAACCAAAAGCTATTTGATGACTGTACA
CAACAGTTCAAAGCAGAGAAACTAAAAGAGAAGCTAAAAATGAAAGAACGGGAAGAAGCATGGGTTAAAATAGAA
AATCTAGCCAAAGCCAATCCCCAGTACACAGTGTATAGTCAAGCCAGCACCATGAGCATTCCGGTTGCAATGGAG
ACAGATGGGCCTTTATTTGAAGATGTGCAGATGCTGAGAAAGACAGTGAAGGACGAGGCTCATCAGGCACAGAAA
GATCCGAAGAAGGACCGTCCTCTTGCACGCCGCAAGTCCGAGCTGCCTCAGGACCCCCACACCAAGAAAGCCTTG
GAAGCTCACTGCAGGGCCGATGAGCTGGCCTCCCAGGACGGCCGCTAGCCTCCGGGGCGCCGCGTCGGGGCCGGG
CCCGCCAGTTCTTTTCCGGATTCTGTAGAAAATACATACTTCCTGTGCCATACCAATCAGTTACACTCAAAGCTT
TCTTGGACCCCGTTCCGTAGGCAATAACGTGCGTCCGCCTCAGCGCGAGATTAGGAGTTCAAACAATGGTGACTT
CCCAGAGCCCGCTGGCAGAGCCGCGGGTTGACGACGGTGTCCTCGCAGTGTCGCCGCCACCCCAGCGTAGTCCAA
GTCAGACTATTTCACAAAGTCAGAGCGATAGGAAAGCACCCTGCCCTTCATCTTCATGTTCTCCCAAATGGAACT
TAGGATCTTTTAACATAGGTGGTTCTGTGATAACATCAGTGTTTTCCAAATCAAAGGAACGCTTTAAAAAATAGG
ACCTATTTTTAAGACTTTACAGCCTTTGAAATGGTTTCCACGTGATTGTTACGCCAGCAGTTCTCGTTTTGTTT
GTTTTTCAATCTCAGTGAAATGGCTCTTTGCTTTCGAGTTCTCACGCAACGTACTGGGCAAATGACAATCCTCAG
CCGCTGGTATTTTCTAAGGGGTCTCTTCACTTTGATGAGTGACATGAACACCGTGTCTCCTTCTCTTGTGTGTAC
CTAAAGCCATATTTCCAAGTCTGTGGTACTCCAGGATTCCAGGAGTAAGCCTGTAGAAGAGATTTATTTTAAAAG
AGATTGCTCTGAAATTTATCTTAAAAGAGCTTGCTCTGTCTACCTTGACAGAAATTGGAGTTTTAAAATTATGTG
TTAATATTTTTATTTGCAGATTTCGTTTCCGTCAACTTAAACATTGTTGCCCTTCAACAAGGCTCTTGAATTAAT
AAAATTATAGTCTCTAAGAATTCCACATTTTATGGAAAGTTAGAGCAAAATCATTTGAGTTAAGCCAGTTCTTA
GCCTAATGCAAACTGCAGCGCCTTTAAGCATAAAGTAACACAACAGCATTGCACGGGGCCGGCACTGCCGCTGCC
TTCACTGAAGGCTGCAGTGCTGTTCTGAGAGCTTGGAGGAGGCACCAGCGAGGATGACGTTTAGTGGAGCTCTTT
CTGTTGAAAAGAGCTCACGTTATCAACACCTTGTAAGGAAAATACAGTGTCTGAGTTTTCATCGGTCTTCACATG
CTGCTATATATTCCACAGAGTTCCTTGCATGTACTGAGCTTTTGTTTTAGATGGAATAGCACAAGGAGAAAAATC
TTTAAACTTAGTGCTTTGTCTATTCTTTATTTCTCTCAGGGTGGCCAGTATTTTGACTTATTTATCCTGCTTGAA
AGCTACTTGAGATGTGTACTGCTATTCTAAACACGTGATCTAGTTTCTTTCATCTCTGGCATAAGATTATATAAC
TTAATGTTAAGTGTCTTGAGGCATAAAAGACAAAATGTGGCTTATTTTAGGATCTGTTTTTTCATCGAGGTCTCG
GGTATCCTTTCAAAGATAGTGAGAAGCAGACACTGCTCCTTGTGCAGCTCTGGTACCTCCTGCCCACTGCTGTCA
CTTCAAGCCACTGGCAATGCTTCTGTCCTCGTGTCTTGGAGGAAATCACCTGGGGGGAGGGGACTTCTTGTGGT
AAGAGCAAGTGCAGGTATGAAATGCGAAGATTGCCCCAGCTAAAAGTGGACAAGTCCGCTTTGTGAGATGAATAC
TTCCTGAGAAACTTGACAAGTATCTCTCCATTTTACCATTATGAAAACTATCATTAAAAAAAACAGTTTAGATGC
CTTCTCCTTTTGAGGGAAAAAGGGTGCTTTTTATTGTATAAAGCAGCGTCTTATGTATTTTGATATACCATTGTT
TGAACTTCCGTCTTTAGCTGATAGATTCTCAAATATCCTTGATTTTGGATGTTCAGTATGTTTGTGAGAGAGGTT
TCTGGGAAGACTCTCTTTTTGCCCTCGGGAAAAAGCAAAATATCAATGTTTGGGTGACTGTGTAAAGCTCAGTGT

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FIGURE 4090B

GTAAGAACATCTTTTTGTCTAGGTTTTCTTTCTGCTCTTTATTGAAGACAAACACTCACCAAAAAGAAAAATAAA
AGTTTTCAGAGAAACTAATTTTCTTTGGCAAGAGTATTACTTAATATTTTGGCCTCCTAAAGTTTCCCTAGTTAG
TACTCGGACTCCTGTGCTAATTGTCAGCTTACATATCATTGTATAGAGACTGTTTATTCTGTACCAAACTGATTT
CAAAAGTACTACATTGAAAATAAACCGGTGACTGTTTTTCTTCATAAAGTTCTGCGTTTGGCATCTTCACTCTTT
CCAAAATGTATCTGTACATCAGAAATGTCACTATTCCAAGTGTCTTTTTAGTGTGGCTTTAGTATGGCTTCCTTT
TAATATTGTACATACATTGTATCTTTGTTTTATGGTAATAAGTAATAAAAATGTAGACTTC

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FIGURE 4091

CTTTCCCGCTGAAGTCTAGATGTTGACATGTAATAAAGCGGGCAGCAGGATGGTGGTGGATGCGGCCAACTCCAA
TGGGCCTTTCCAGCCCGTGGTCCTTCTCCATATTCGAGTTGAGGCTGTGAAGCTGGGCAGGGTTTCAGCTGAGCT
GAGGTTGGAAGTCCCTGACCTTCAGCTGTGGCCGCCTACGGAGCAGCAGGGAGAGCAAACCCATGGAGAACCCCG
CGGCCCCCAAAGCATGGACGGAGCTGCCAGCCTTCTCCCCTGCCCTTCTTCCTCTACTCCCGACCTGCCAGCCTT
CTCCCCTGCCCTTCTGCCTCTACTCCCGACCTGCCAACCTTAGCCTAAAATCAGAGCTGCTAGAATCACACACAC
TGTCGTAGCTGGTTTTGTATTGTAAATGAGTCATTCTGTTATTTTGGAAACTTATGTCTCATGCCAGGATCTGCA
GATAGTTCTTTTTCAAAATATTGTTTAGACAAAATAAATTTCTTTAAATATAATATCTCTACTTTAAATGCCTGG
GGTGTTGCATGCATTTTTCTAGGCTAGCAAAGCTTAAAGATTATTTCTATAATTTCAGTTACATTTACCTTTATA
GATGGGTTACTCTAAGTAACAAATTAAACACACATGGATCTTCTAACTTTGGCTTTAAATCCTAAGAAGAGATAG
GTAATATATAAAAGAGTATTAAAAAGAAATGGAGAGTAAAGGTATATGTCGGGCAGATGCAGTAGAAAAGCAAGG
GTCATGACGTCAATGCTGGGCAAAGCTAAATTGTGAAGACAAAACAATAATGAAACAGGGTTATTCATCACGCTA
AAGCGTACAGTCCATAGGATGATATAACTACCATGAATTTGGCCTAAATGATTGAACATTGAAACACATAAAGCG
AGAACTGTAGGGGATT

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FIGURE 4092

CAGTTGCTTCAGCGTCCCGGTGTGGCTGTGCCGTTGGTCCTGTGCGGTCACTTAGCCAAG<u>ATG</u>CCTGAGGAAACC
CAGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACGTTCGCCTTTCAGGCAGAAATTGCCCAGTTGATG
TCATTGATCATCAATACTTTCTACTCGAACAAAGAGATCTTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCA
TTGGACAAAATCCGGTATGAAAGCTTGACAGATCCCAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAACCTT
ATACCGAACAAACAAGATCGAACTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAAT
AACCTTGGTACTATCGCCAAGTCTGGGACCAAAGCGTTCATGGAAGCTTTGCAGGCTGGTGCAGATATCTCTATG
ATTGGCCAGTTCGGTGTTGGTTTTTATTCTGCTTATTGGTTGCTGAGAAAGTAACTGTGATCACCAAACATAAC
GATGATGAGCAGTACGCTTGGGAGTCCTCAGCAGGGGGATCATTCACAGTGAGGACAGACACAGGTGAACCTATG
GGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCAAACTGAGTACTTGGAGGAACGAAGAATAAAGGAG
ATTGTGAAGAAACATTCTCAGTTTATTGGATATCCCATTACTCTTTTTGTGGAGAAGGAACGTGATAAAGAAGTA
AGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAAGAAGAGAAAGAGTCGGAAGACAAA
CCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGAAGAAAAGAAGGATGGTGACAAGAAGAAGAAGAAGAAGATT
AAGGAAAAGTACATCGATCAAGAAGAGCTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACT
AATGAGGAGTACGGAGAATTCTATAAGAGCTTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTCA
GTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCCCACGACGTGCTCCTTTTGATCTGTTTGAAAACAGA
AAGAAAAAGAACAACATCAAATTGTATGTACGCAGAGTTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAA
TATCTGAACTTCATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAA
AGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGTCAAAAAAATGCTTAGAACTCTTTACTGAACTGGCGGAAGAT
AAAGAGAACTACAAGAAATTCTATGAGCAGTTCTCTAAAAACATAAAGCTTGGAATACACGAAGACTCTCAAAAT
CGGAAGAAGCTTTCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTAC
TGCACCAGAATGAAGGAGAACCAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCA
GCCTTTGTGGAACGTCTTCGGAAACATGGCTTAGAAGTGATCTATATGATTGAGCCCATTGATGAGTACTGTGTC
CAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGTGTCAGTCACCAAAGAAGGCCTGGAACTTCCAGAGGATGAA
GAAGAGAAAAAGAAGCAGGAAGAGAAAAAAACAAAGTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAG
AAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACATCTCCATGCTGTATTGTCACAAGCACATATGGC
TGGACAGCAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACTCAACAATGGGTTACATGGCAGCA
AAGAAACACCTGGAGATAAACCCTGACCATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAAC
GACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTATGAAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGAT
CCCCAGACACATGCTAACAGGATCTACAGGATGATCAAACTTGGTCTGGGTATTGATGAAGATGACCCTACTGCT
GATGATACCAGTGCTGCTGTAACTGAAGAAATGCCACCCCTTGAAGGAGATGACGACACATCACGCATGGAAGAA
GTAGAC<u>TAA</u>

4436/6881
FIGURE 4093

MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKE
LHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTV
ITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKE
RDKEVSDDEAEEKEDKEEEKEKEEKESEDKPEIEDVGSDEEEEKKDGDKKKKKKIKEKYIDQEELNKTKPIWTRN
PDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCE
ELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIH
EDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYYITGETKDQVANSAFVERLRKHGLEVIYMIEPI
DEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIV
TSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSG
FSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMPPLEGDDDTSRMEEVD

4437/6881
FIGURE 4094

GCGCGGTGGGCGTGATCCGGGCACTTAGGGCAGGATGAACGCTGCTTTCCAAGATGGCGACGGAGGGAGGAGGGA
AGGAGATGAACGAGATTAAGACCCAATTCACCACCCGGGAAGGTCTGTACAAGCTGCTGCCGCACTCGGAGTACA
GCCGGCCCAACCGGGTGCCCTTCAACTCGCAGGGATCCAACCCTGTCCGCGTCTCCTTCGTAAACCTCAACGACC
AGTCTGGCAACGGCGACCGCCTCTGCTTCAATGTGGGCCGGGAGCTGTACTTCTATATCTACAAGGGGGTCCGCA
AGGCTGCTGACTTGAGTAAACCAATAGATAAAAGGATATACAAAGGAACACAGCCTACTTGTCATGACTTCAACC
ACCTAACAGCCACAGCAGAAAGTGTCTCTCTCCTAGTGGGCTTTTCCGCAGGCCAAGTCCAGCTTATAGACCCAA
TCAAAAAAGAAACTAGCAAACTTTTTAATGAGGAAAGACTAATAGACAAGTCACGAGTTACCTGTGTCAAATGGG
TTCCCGGTTCGGAAAGCCTTTTCCTAGTAGCCCACTCGAGTGGGAACATGTACTTATATAATGTGGAGCACACTT
GTGGCACCACAGCCCCCCACTACCAGCTTCTGAAGCAGGGAGAGAGCTTTGCCGTGCACACTTGCAAGAGCAAAT
CCACGAGGAACCCTCTCCTTAAGTGGACGGTGGGCGAGGGGGCCCTCAACGAGTTTGCTTTCTCCCCAGATGGCA
AGTTCTTAGCGTGCGTGAGCCAGGACGGGTTTCTGCGGGTGTTCAACTTTGACTCAGTGGAGCTGCACGGTACGA
TGAAAAGCTACTTTGGGGGCTTGCTGTGTGTGTGCTGGAGCCCGGATGGCAAGTACATCGTGACAGGTGGGGAGG
ACGACTTGGTGACAGTCTGGTCCTTTGTAGACTGCCGAGTAATAGCCAGAGGCCACGGGCACAAGTCCTGGGTCA
GTGTTGTAGCGTTTGACCCTTATACCACTAGTGTAGAAGAAGGTGACCCTATGGAGTTTAGTGGCAGCGATGAGG
ACTTCCAAGACCTTCTTCATTTTGGCAGAGATCGAGCAAATAGTACACAGTCCAGGCTCTCCAAACGGAACTCTA
CAGACAGCCGCCCCGTAAGTGTCACGTATCGGTTTGGTTCCGTGGGCCAGGACACACAGCTCTGTTTATGGGACC
TTACAGAAGATATCCTTTTCCCTCACCAACCCCTCTCAAGAGCAAGGACACACACAAATGTCATGAATGCCACGA
GTCCTCCTGCTGGAAGCAATGGGAACAGTGTTACAACACCCGGGAACTCTGTGCCGCCTCCTCTGCCACGGTCCA
ACAGCCTTCCACATTCAGCAGTCTCAAATGCTGGCAGCAAAAGCAGTGTCATGGACGGGGCCATTGCTTCTGGGG
TCAGCAAATTTGCAACACTTTCACTACATGACCGGAAGGAGAGGCACCACGAGAAAGATCACAAGCGAAATCATA
GCATGGGACACATTTCTAGCAAGAGCAGTGACAAACTGAATCTAGTTACCAAAACCAAAACGGACCCTGCTAAAA
CTCTGGGAACGCCCCTGTGTCCTCGAATGGAAGATGTTCCCTTGTTAGAGCCGCTGATATGTAAAAAGATAGCAC
ATGAGAGACTGACTGTACTAATATTTCTTGAAGACTGTATAGTCACTGCTTGTCAGGAGGGATTTATTTGCACAT
GGGGAAGGCCTGGTAAAGTGGGCTCATTGTCATCCCCAAGCCAGGCCAGTTCTCCAGGTGGAACTGTAGTGTAGC
GACCTCACTGCTGCGCGCACAGTCTCCCGGGACTTGGACTCGAGGGAGTGACGAGGAGGAGCTCCGAGCTGCGCC
TGAGCCGTGCCAGCCGGCGGACCTCAGGCGGTGGACGTCGGCGATAGCCGTGTGGACGGTGACCGGCTCACTCTG
CGGCGCCGTGCTCCCGCTGCTCACCCAAAGAAGTTGTTTCCATTTTAAACCGGTCTTTTGGGGCTGCAGTAAAAA
ATAAGAAATGGAGTTTTCTTGCTTTTTACTCTAAAATTCAATGTAATTAAATTTCATATATATATAATATATACA
TATATACATAGTGTAAAATAAAATGTTTCTTGGACAAGAAATCCCCTGAAATTCAGCTGTTATAGTGCTTCACTG
TTTTTGCACTGATTTTTCTATACCTTAGGTGGTCAGAAGACAACCTTGAATGCACTCATAGAGAAAACTGTTACT
TTCTGACGTAATGTAATTCAGGAAGACAGACGCTGCAATCACAGATTTTAAAAAAATTGTTTGCACTTAAAAAATAG
TTGAATGCTGGTGGAAAGTTACTTTGCAGATGGGTGTAAGGACTCATGGCCCTCTGAGGTGCGGCGTGAAGATGC
CCTTTTTACCCGTTGACGTTTATTTTACGTAAAATAAACTGTTGTTTCCAATGCAATCAACTCTGTATTATATGT
ATAAATATTGTAATTCTGCAATTGGGGAAAATAGTTACTTCACTAGTAATTTTCATCATTTAAGAGTGATATTTC
TAATTCACAAAAGTTAATATTAAAACTATCTTGAATAT

4438/6881
FIGURE 4095

CGCATGCGCAGGCGACAGCTCATGGCGTTCAGGGCCTGACGGTTGCTAGGGTGACAGGGACACAACATGGCGGCG
GGATCTCTAACGCTCTCCTTCGAGGGACCACCACGGAGATCCTAGTGCGGGACCCCGCCTCAGGGAAGTGGAAAG
CAGGGGGACAACCTTCCTGCTTCCTTCTTTTCCGTCCAGTGTCGGCAAGGGGTTGTCACCGGCTTCCGCATCCAA
G**ATG**AAGAACTATAAAGCAATTGGCAAAATAGGAGAGGGAACGTTTTCTGAAGTTATGAAGATGCAAAGCCTGAG
AGATGGAAACTACTATGCATGTAAACAAATGAAGCAGCGCTTTGAAAGTATTGAGCAAGTCAACAACCTACGAGA
GATCCAAGCACTGAGGCGCCTGAATCCGCACCCAAACATTCTTATGTTGCATGAAGTGGTTTTTGACAGAAAATC
TGGTTCTCTTGCACTAATATGTGAACTTATGGACATGAATATTTATGAGCTAATACGAGGGAGAAGATACCCATT
ATCAGAAAAAAAAATTATGCACTATATGTACCAGTTATGTAAGTCCCTGGATCATATTCACAGAAATGGAATATT
TCACAGAGATGTAAAACCAGAAAATATACTAATAAAGCAGGATGTCCTGAAATTAGGGGACTTTGGCTCCTGCCG
GAGTGTCTATTCCAAGCAGCCGTACACGGAATACATCTCCACCCGCTGGTACCGGGCCCCGGAGTGTCTCCTCAC
TGATGGGTTCTACACGTACAAGATGGACCTGTGGAGCGCCGGCTGTGTGTTCTACGAGATCGCCAGTCTGCAGCC
CCTCTTTCCTGGAGTAAATGAACTGGACCAAATCTCAAAAATCCACGATGTCATCGGCACACCCGCTCAGAAGAT
CCTCACCAAGTTCAAACAGTCGAGAGCTATGAATTTTGATTTTCCTTTTAAAAAGGGATCAGGAATACCTCTACT
AACAACCAATTTGTCCCCACAATGCCTCTCCCTCCTGCACGCAATGGTGGCCTATGATCCCGATGAGAGAATCGC
CGCCCACCAGGCCCTGCAGCACCCCTACTTCCAAGAACAGAGGAAAACAGAGAAGCGGGCTCTGGGCAGCCACAG
AAAAGCTGGCTTTCCGGAGCACCCTGTGGCACCGGAACCACTCAGTAACAGCTGCCAGATTTCCAAGGAGGGCAG
AAAGCAGAAACAGTCCCTAAAGCAAGAGGAGGACCGTCCCAAGAGACGAGGACCGGCCTATGTCATGGAACTGCC
CAAACTAAAGCTTTCGGGAGTGGTCAGACTGTCGTCTTACTCCAGCCCCACGCTGCAGTCCGTGCTTGGATCTGG
AACAAATGGAAGAGTGCCGGTGCTGAGACCCTTGAAGTGCATCCCTGCGAGCAAGAAGACAGATCCGCAGAAGGA
CCTTAAGCCTGCCCCGCAGCAGTGTCGCCTGCCCACCATAGTGCGGAAAGGCGGAAGA**TAA**CTGAGCAGCACCGT
CGTCTCGACTTCGGAGGCAACACCAAGCCCGACCGGGCCAGGCCTGGGTGATCTGCTGCTGAGACGCCACGGAGG
GCTGGGGATGCGCCTGCGTCCGTTTCGCGCTGGCCGGGGCTCTGGGTGCTGCCCTGCGCCCTGCCGCACCCGCGG
CCCGCGCAGCTGCCTAGGATGTTCTGGGCTAATATACTTGTAAAACCACCGCATTCTAGGGTTTTCTTTCATTTT
CGTTAAGAATTTGGGGCAGGAAATACTTTGTAACTTTGTATATGAATCAAAACAAACGAGCAGGCATTTCTGTGA
TGTGTTGGGCGTGGTTGGAAGGTGGGTTCTGCGTGTCCCTTCCCAGCGCTGCTGGTCAGTCGTGGAGCGCCATCA
TGTCTTACCAGTGACGCTGCTGACACCCCTGACTTTTATTAAAGAATAAGCTGTCGTTAAAAAAAAAAAAAAAAAA
AAAA

4439/6881
FIGURE 4096

MKNYKAIGKIGEGTFSEVMKMQSLRDGNYYACKQMKQRFESIEQVNNLREIQALRRLNPHPNILMLHEVVFDRKS
GSLALICELMDMNIYELIRGRRYPLSEKKIMHYMYQLCKSLDHIHRNGIFHRDVKPENILIKQDVLKLGDFGSCR
SVYSKQPYTEYISTRWYRAPECLLTDGFYTYKMDLWSAGCVFYEIASLQPLFPGVNELDQISKIHDVIGTPAQKI
LTKFKQSRAMNFDFPFKKGSGIPLLTTNLSPQCLSLLHAMVAYDPDERIAAHQALQHPYFQEQRKTEKRALGSHR
KAGFPEHPVAPEPLSNSCQISKEGRKQKQSLKQEEDRPKRRGPAYVMELPKLKLSGVVRLSSYSSPTLQSVLGSG
TNGRVPVLRPLKCIPASKKTDPQKDLKPAPQQCRLPTIVRKGGR

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FIGURE 4097A

CCCCCGGCGGAGCCAGCTGCTGCTCTTCGGTGCTGGCCCCGGTGCCGGCCCCGTTGCCCAGGGAACAGGCTCCCG
GCAGCCCCCGCGGCCCGGAGTCCATCCCGCCTCCTCCGGCCCGGCGGGGCCGACGAGTCCGGAGGGGCTGCCGCG
GGAGCCCCCAGGTTTCCCTAGATGACAAATAAACATTCCTTTTCCTGCGTGAAGATAGTCTGTGGAAACCTTGGC
CATGGCATCGATATCAGAGCCTGTTACATTCAGAGAGTTCTGCCCGTTGTACTATCTCCTCAATGCCATTCCGAC
AAAGATCCAGAAGGGTTTCCGCTCTATCGTGGTCTATCTCACGGCCCTCGACACCAACGGGGACTACATCGCGGT
GGGCAGCAGCATCGGCATGCTCTATCTGTACTGCCGGCACCTCAACCAGATGAGGAAGTACAACTTTGAGGGGAA
GACGGAATCTATCACTGTGGTGAAGCTGCTGAGCTGCTTTGATGACCTGGTGGCAGCAGGCACAGCCTCTGGCAG
GGTTGCAGTTTTTCAACTTGTATCTTCATTGCCAGGGAGAAATAAACAGCTTCGGAGATTTGATGTCACTGGTAT
TCACAAAAATAGCATTACAGCTCTGGCTTGGAGCCCCAATGGAATGAAATTGTTCTCTGGAGATGACAAAGGCAA
AATTGTTTATTCTTCTCTGGATCTAGACCAGGGGCTCTGTAACTCCCAGCTGGTGTTGGAGGAGCCATCTTCCAT
TGTGCAGCTGGATTATAGCCAGAAAGTGCTGCTGGTCTCTACTCTGCAAAGAAGTCTGCTCTTTTACACTGAAGA
AAAGTCTGTAAGGCAAATTGGAACACAACCAAGGAAAAGTACTGGGAAATTTGGTGCTTGTTTTATACCAGGACT
CTGTAAGCAAAGTGATCTAACCTTGTATGCGTCACGGCCCGGGCTCCGGCTATGGAAGGCTGATGTCCACGGGAC
TGTTCAAGCCACGTTTATCTTAAAAGATGCTTTTGCCGGGGGAGTCAAGCCTTTTGAACTGCACCCGCGTCTGGA
ATCCCCCAACAGTGGAAGTTGCAGCTTACCTGAGAGGCACCTGGGGCTTGTTTCATGTTTCTTTCAAGAAGGCTG
GGTGCTGAGTTGGAATGAATATAGTATCTATCTCCTAGACACAGTCAACCAGGCCACAGTTGCTGGTTTGGAAGG
ATCCGGTGATATTGTGTCTGTTTCGTGCACAGAAAATGAAATATTTTTCTTGAAAGGAGATAGGAACATTATAAG
AATTTCAAGCAGGCCTGAAGGATTAACATCAACAGTGAGAGATGGTCTGGAGATGTCTGGATGCTCAGAGCGTGT
CCACGTGCAGCAAGCGGAGAAGCTGCCAGGGGCCACAGTTTCTGAGACGAGGCTCAGAGGCTCTTCCATGGCCAG
CTCCGTGGCCAGCGAGCCAAGGAGCAGGAGCAGCTCGCTCAACTCCACCGACAGCGGCTCCGGGCTCCTGCCCCC
TGGGCTCCAGGCCACCCCTGAGCTGGGCAAGGGCAGCCAGCCCCTGTCACAGAGATTCAACGCCATCAGCTCAGA
GGACTTTGACCAGGAGCTTGTCGTGAAGCCTATCAAAGTGAAAAGGAAGAAGAAGAAGAAGAAGACAGAAGGTGG
AAGCAGGAGCACCTGTCACAGCTCCCTGGAATCGACACCCTGCTCCGAATTTCCTGGGGACAGTCCCCAGTCCTT
GAACACAGACTTGCTGTCGATGACCTCAAGTGTCCTGGGCAGTAGCGTGGATCAGTTAAGTGCAGAGTCTCCAGA
CCAGGAAAGCAGCTTCAATGGTGAAGTGAACGGTGTCCCACAGGAAAATACTGACCCCGAAACGTTTAATGTCCT
GGAGGTGTCAGGATCAATGCCTGATTCTCTGGCTGAGGAAGATGACATTAGAAGTGAAATGCCACACTGTCACCA
TGCACATGGGCGGGAGCTGCTCAATGGAGCGAGGGAAGATGTGGGAGGCAGTGATGTCACGGGACTCGGAGATGA
GCCGTGTCCTGCAGATGATGGACCAAATAGCACACAGTTACCCTTCCAAGAACAGGACAGCTCTCCTGGGGCGCA
TGATGGGGAAGACATCCAACCCATTGGCCCCCAAAGCACTTTTTGTGAAGTCCCCCTCCTGAACTCACTCACTGT
GCCTTCCAGCCTCAGCTGGGCCCCAAGTGCTGAACAGTGGCTGCCTGGGACCAGAGCTGATGAAGGCAGCCCCGT
GGAGCCCAGCCAAGAGCAGGACATCCTAACCAGCATGGAGGCCTCTGGCCACCTCAGCACAAATCTCTGGCATGC
TGTCACTGATGATGACACAGGTCAGAAAGAAATACCCATTTCTGAACGTGTCTTGGGGAGTGTGGGAGGACAGCT
GACTCCGGTCTCTGCCTTGGCAGCCAGCACTCACAAGCCCTGGCTTGAGCAGCCTCCACGGGATCAGACATTGAC
GTCCAGCGATGAGGAGGACATCTATGCCCACGGGCTTCCTTCTTCATCCTCAGAGACGAGTGTGACAGAGCTCGG
ACCTAGTTGCTCCCAGCAGGACCTGAGCCGGCTGGGTGCAGAGGACGCCGGGCTGCTCAAGCCAGATCAGTTTGC
AGAAAGCTGGATGGGCTACTCGGGTCCCGGCTATGGCATCCTCAGCTTGGTGGTCTCCGAGAAGTATATCTGGTG
CCTGGACTACAAAGGCGGCCTGTTCTGCAGCGCGTTGCCGGGCGCCGGGCTGCGCTGGCAGAAGTTTGAAGATGC
TGTCCAGCAGGTGGCAGTCTCGCCCTCAGGAGCCCTTCTCTGGAAGATTGAACAGAAATCTAACCGGGCTTTTGC
TTGTGGGAAAGTCACCATCAAGGGGAAGCGGCACTGGTACGAAGCCCTGCCCCAGGCAGTGTTTGTGGCCCTGAG
CGATGACACGGCCTGGATCATCAGGACCAGTGGGGACCTATACTTGCAGACAGGTCTGAGCGTGGATCGCCCTTG
TGCCAGAGCCGTAAAGGTGGACTGTCCCTACCCGCTGTCCCAGATCACAGCCCGGAACAATGTGGTGTGGGCGCT
GACAGAGCAGAGGGCCCTCCTGTACCGGGAGGGCGTGAGCAGCTTCTGTCCGGAAGGCGAGCAGTGGAAGTGTGA
CATTGTCAGCGAAAGGCAAGCTTTAGAACCCGTCTGCATAACGCTCGGGGATCAGCAGACTCTCTGGGCCCTGGA
CATCCATGGGAACCTGTGGTTCAGAACTGGCATTATTTCCAAGAAGCCCCAAGGAGATGACGACCATTGGTGGCA
AGTGAGCATCACGGACTATGTGGTGTTTGACCAGTGCAGCTTATTTCAGACGATAATCCATGCCACTCACTCGGT
GGCCACAGCAGCCCAAGCCCCCGTAGAAAAGGTGGCAGATAAGCTGCGCATGGCGTTTTGGTCCCAGCAGCTTCA
GTGCCAGCCAAGCCTTCTCGGGGTCAATAACAGCGGTGTCTGGATCTCCTCGGGCAAGAATGAATTCCACGTCGC
TAAGGGAAGTCTCATAGGCACCTACTGGAATCATGTGGTTCCCCGTGGGACAGCTTCTGCTACAAAATGGGCCTT

4441/6881
FIGURE 4097B

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TGTGTTGGCTTCTGCAGCTCCCACGAAGGAAGXXXXXXXXXXXXTGGCTGTGCCAGAGCAGCAAGGACCTGTGCAG
CGTCAGCGCCCAGAGCGCACAGTCGCGGCCCTCCACGGTGCAGCTGCCTCCCGAAGCCGAGATGCGCGCCTATGC
CGCCTGCCAGGATGCGCTGTGGGCGCTGGACAGCCTCGGCCAGGTGTTCATCAGGACGCTCTCCAAGAGCTGCCC
CACGGGCATGCACTGGACCAGGCTGGACCTCTCCCAGCTAGGAGCTGTAAAATTGACAAGCTTGGCATGTGGAAA
TCAGCACATCTGGGCCTGTGATTCCAGGGGTGGAGTTTACTTCCGTGTAGGGACTCAGCCTCTCAATCCCAGTCT
CATGCTTCCAGCCTGGATAATGATTGAGCCACCTGTCCAGCCCGCCGGGGTCAGCTTGGTCAGCGTCCATTCCAG
CCCCAACGACCAGATGCTGTGGGTGCTTGACAGCAGGTGGAACGTGCACGTGCGGACCGGGATCACCGAGGAGAT
GCCTGTGGGGACCGCCTGGGAGCATGTGCCAGGGTTGCAGGCCTGCCAGCTGGCGCTGAGCACCAGGACCGTGTG
GGCCCGCTGTCCAAACGGAGACCTCGCCCGGCGGTACGGCGTCACAGACAAGAACCCCGCCGGGGACTACTGGAA
GAAAATTCCCGGCAGCGTGTCGTGTTTCACAGTGACTGCGTCAGATGAGCTGTGGGCTGTGGGCCCGCCCGGCTA
CCTCCTCCAACGGCTGACAAAGACGTTCAGCCACTCGCACGGCACCCAGAAGAGCAGCCAGGCCGCCATGCCCCA
CCCTGAGGACCTGGAGGACGAGTGGGAGGTCATCTGAAGGAGCCCTGGCCGAGTCACGCGGAGGGGCCCGGCGTC
TGTGGCGGGCACAGGGGCTTCAGAGTGACTCCCTGGTGGACGCGCTGCCTCAACACTTGTCCAGACACCTCTGGC
CAGGTTGGACCCGCACACTTACTTTCATCTATGTTGGTTTCTGTCTCGTTCCAGAACCCACAGCCTCCACCCGTG
GCTGGCGTGATTGCTGCAGCAGTGGCGCCTCCTAGCTCAGGACAGTGGCGACTGCCCGGCTGCATGCACTCCGAT
TACCCACGTGCTGCCGTCCTGGTCTCATCCACAGATAGCTCCAGCTTTTGTTGGTGGGAGTGGTCTCCGGAGGCC
TCCCAGAACCAAGGGTAGCCGGGCAGCTGGTTTGGCCCAGGGCCTCCTTCCACATTAGTAGCCCCAGGGCCAGAT
GGAGCCAAAGGTCAGCTCTCTGCAGCGCGGGATGTGCTCGGTGATGGCTTTGTCCCATCATAGGGGGGTGTCCCC
CCAGAGACAAAGCTGCAGAGCACATTCCATGCCAGACGCTCTGGCCAGGAAGCTGAGGCCGGGCTTGAGAGGAGA
GCGCTGGCCATGCCAGGAGAGAACCCACGCACATGCACACCACAACACACAACACACCTCACCTCACACCACAGC
ACACCTCACCACACCACACCGCACTGCACCATACCTCACCACATCTCACCACACCACAGCACACCTCACCACACA
ACACACCACACCCCACACCGCACTGCACCGCACCGCACCGCACCGTACCTCGCCACATCTCACCACACCACACCA
CACCACACCTCACTGCCCACACACGGCGCAGGCTGCCCGCCTCCTGGAGAGCACACTTCAGCTGAAACAGTAAAG
CCTGATGGGTGCAAATGGAACCTGGATGTGTGCACGTGTGTCCCAGGTAGGGACGGCACAGGAGGGTGCATGGGG
CGTGGGGGAGCTGAGCAAGGGTCGCTCACTTAGAAATGTCTTTGGAATGGTGTTTAACTAATGCTGCTGGCGGAC
ATCCTAAAACCAGATGCATCCTCAGAGGACGAGTCTACTAATTATTGCCTTTGTTGTTGTATTACAAATCTGCAT
AAAATACCTCATTTCAAATCAAATCTTACAAATTTAGAAGAGAGATATGTTTTCCGAAAACAGTGGAAGCCCTTT
GTTCCTTCCCGGGTTTGTCCTGAGCCTGCACTGTCCTCGCCTGCAGCCTCAGAGGGGCAGGCATCCCCGCACAGA
CTTGACTGGCAGGGCGGTCACGGGACCTGCGGGCTGGCTCCGAGTGGCAGCCCATGCCTTCTGCGGGGTATGGGT
TGACACTTGACAGGTTGAAACCAGTGCCTCTATGGACGGCTGCTGTGGCCCCTTCAGACAATGGGCAGTGCCCAC
CCCGCCCACTGGCATCTGCGTGTGAGGGCTAGGCCGCCCTGCCACACATCCCGCCCCCTCCCGGAGGCAGCTTCA
GGACAGGACACCAGGCTGGCTGCTTTTTTTAGCCTGCCCCTGGCCCAGGCCCAGTCCTTGGTGTCAGGGAGCCCC
CAGGCCGCAGGTGGAGGGTGATAAAATATGTTCTCTGACAGGACCCAGCCAGCCACATAGGTGGAGGTTTTCCAT
GTCCAAATGAGGTCAAGATGCCGAAATCCCAGATCTGACTTCACACTTCCCTTTTCTAGAACCTTTTGTAAAAGT
TGGTGGCAGCAGAGGCAGCCCCAGGCCGGGCTGCATCTCTCTGTGTCTGTTGTGCCTTGCCCGGCGCCTCACGGA
TGGCAAAGCTCTCCTCACCCATGGGACTGTAGTGCAATTAAACCCGCGTCTAGGTGATGCTTTTAAAGTTGTAGC
TTCGTGCTTTGTACAGTTTTCTTTCTGGTTTTAATTTTTAGTTGTGCTTTGAGTCAGTGCAATAAACTAGACTTT
TTCC
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4442/6881
FIGURE 4098A

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AGCTTGAGCGCGGCGGCGGCGTTGTTCAGTCAGAGCGAGAACATTCCAGAGGTCGCCCAGCTCCGGCGCTGACGG
GTGTGGACCGCGGACGTCGCTGGGACAGCCCCTCCCCGCTGCTCGGCGGCGGCATCTGGCCCGGCCGCTCCTCGC
TGCGCTTCGCCTCCGCCTCCTCGGACTCGGACTCGGGTTTATATCGCGCCTCACTTCATCCCAGTCCCGGGCGAG
CAGCGTTGGGTTTATGTCTTTATTTGACGAAAACGAGCTGTTGCGCAGCCATTGGTACCTGTATTGGGGAAACAT
AGCATACAAGCAAGAAGCTTACAGCCTCAGTGGCGAAAATTTTTTCATGTCAGAGACCGAGAACTCTTGCAGTCG
TTTATGTCATCCCTTCTTCTCCAGACAGAAGATACCAAAAAGTTGCAATCAAAGATCTCTTCATCTTATTGATAA
AGCCACTAATAAGCCAAAATGTCTGTCAATGTCAACCGCAGCGTGTCAGACCAGTTCTATCGCTACAAGATGCCC
CGTCTGATTGCCAAGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAG
GCGCTTAATCGGCCTCCAACGTATCCCACCAAATATTTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTT
AAGAATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTCATTAAA
AAATTTGTTCTCTGTCCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCCAAAGAAGCAAACAATAGGT
AATTCTTGTAAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAACTCTGCACATTCATTCTCAAAAAC
CCACCTGAGAATAGTGACAGTGGTACAGGAAAGAAAGAAAAAGAAAAGAAAAACAGAAAGGGCAAAGACAAGGAA
AATGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCACCAAATGAAATTAATCCTCCTCCACATACA .
ATGGAAGAAGAGGAGGATGATGACTGGGGAGAAGATACAACTGAGGAAGCTCAAAGGCGTCGAATGGATGAAATC
AGTGACCATGCAAAAGTTCTGACACTCAGTGATGATTTGGAAAGAACAATTGAGGAGAGGGTCAATATCCTCTTT
GATTTTGTTAAGAAAAAGAAAGAAGAGGGTGTTATTGATTCATCTGACAAAGAAATCGTTGCTGAAGCAGAAAGA
CTGGATGTAAAAGCCATGGGCCCTCTTGTTCTAACTGAAGTTCTTTTTAATGAGAAGATTAGAGAACAGATTAAG
AAATACAGGCGCCATTTCCTACGATTTGTCACAACAACAAAAAAGCCCAACGGTACCTTCTTCATGGTTTGGAG
TGTGTGGTAGCAATGCATCAAGCTCAGCTTATCTCCAAGATTCCACATATCTTGAAGGAGATGTACGATGCAGAC
CTTTTAGAAGAAGAGGTCATCATCAGCTGGTCGGAAAAGGCCTCTAAGAAATATGTCTCCAAAGAACTTGCCAAA
GAGATTCGTGTCAAAGCAGAACCATTTATAAAATGGTTGAAGGAGGCAGAGGAAGAATCTTCTGGTGGCGAAGAA
GAAGATGAAGATGAGAACATTGAGGTGGTGTATTCGAAGGCTGCCAGTGTACCGAAAGTTGAGACTGTAAAGTCA
GACAACAAGGATGACGACATCGATATTGATGCCATTTAAAGGGATGGATGCAACCTAGCTTAACAGTATAATGCT
GCAAATTTTCCTCCATTATCAGCCAGAAGTGCAACATGTATGTGCAAAAGCTAAAATGGCTTAACATCATGCTAC
ACTTTACACTAAAAATCTATTACTGTGAGTGGTCTGTTATTAAGCCCAATGAGACATCTAGGGAGTCCATACACA
TCAGTGAGCAGATGTAGTTTGCTTATTTATAGCATGTTTCTTTTTGAAAAACTAGTGGTGGACACATTTGGATCA
CATTTATACAGTTATAAAAATAAAGGTTTGATTTTGGTCGTTCTTCAGATGTTTGGCTCTGAATGACTTAAGCTG
AAGTAACTGGCTCCTTACTTTAAATGTTCTGCCATCATTTCACCTGATGAGCATTCTTGGAGCCTGCCAGATATT
GTTAGGTCCTGGGGCTGCAAAGAGGTCCTCAACAGGATGTAAAGCAAACTTAATTGTAATTAATTTATTCAGCCC
ATTAAGAAAGTACTAAAGTTTTATCTCTGTAGTTCCTCAAATTGGCATCTGGTAATGTACATTGTGAGGTAGACT
GATAATGAAATGACAGTGCAACATCTTAACCAAGAAGTAAATATGACCTCAGTGTCCTATAAATAATGTAAGAGC
AGGATTTGAAACTTGGAGAGCTGTTTTCTCATTTCATGTACACTTGCCCCAAATTGTCTTTGAAGTCGTGTGCAT
TGCACGTTGGATGAGCCAGGGAAATTATTACATTAACAAGCATTTTGTGTGTGCGTAGTAGTTACTTTGTACTGA
GAGAACTTGCTTTGGGGTGCAATTAAACAATAAACTGATTTTATTTGGGAGAAACAAGGAAGGGTGCACTTAACT
AGCAACCTAAGCATGATTTTTCAGCTTTTGCCCTTAGGGTTTAAATTACAATTCCAAAATGTTAGACATACTGTA
TTTTTTCGTTCAGTGTGGCTTTAATTTTCCCCTCTTGCAGTTTGTTCTGTAATGCCTTTTACATTGGACACATA
GTTTATGCTTTTTAGATTTTGGTTGCTTTCTTGCCAAAATAAGTGTTAACTGTGTTTCAAACTTGATTTTCTTTC
TTTTTTCTTTTTTTTTCTTCCAGAATGTCTTATTTAAAAAGAAAGCTAAAAGCATACTTCTAAGTCAGAGCCTCT
ATTTTGGTGTAAGACTTGGGATATTTTTTACTTCACATTGAATATAGCCAGGCACCCAAGAAGTCTGATGGCCAC
CTGAGTGCAGGTGACAAGGACCTGACAGAGCCCATGCAGGGCTTTAGATTTGGACACACAAGAGTTGATAACTTC
CTCATGAACTCCTTGCCTGATCTAAACTCATATTATGGGTTCTGACTGTTTGAGTAATCGTCTTCAAGGTTAAAC
CTCTTGGCAGTTACCCTTTTCACAAAGTGCACAGTGGGAATCGAGAATCGATAGGGTTAATTTTGGAGCAGTGGC
TTATACCATTCACCTCTGTTTTTTTGTGATTATTTCACAGATAATGAGACCTTAATAACAAATAGGCGTAAAAAA
ATTTTCACATTGAAATGATAGAAACATTTGATGTAATAAAACTTGGTTGGCTTGATATTTTAAGGAATTGAAACC
TAGCAATCTTATTGGAGAGACAAGAATTGGTCTCCAGCTGCCTTTGATCAAGATTCGGGTGCAAGTGGAGCAGGA
GCCATATACCTGGAGGGAATGTGCTTTGTCACACCAAAGAGGATTTTTTTTTTCTTCAAACTTGTATGTTGCCTA
GGTTTCAAATTCTTTGCCGCAAGGCTGATCTGCTTTCATTAACTGGAATTCTGTAGGAGATACTGGTGACCTAAG
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FIGURE 4098B

CTAAGTTGCACTCAGCATACTCAGTGTCAAGCTAATGAGGTTCTATTATAAAGGTTCTACTTTTAATCTGAGGGA
AAACATGTTCAGGGCTTCTAGAACACTAAAAAATTTGGCTTAAACCAGTGTTCAGTCTGGTGCCAAACTTCGAAT
GGAATACAAATTCACATAATCTGAACTTTGTTCACAGGTTATCCTAATAGAGTAATTCTTCACTTTGCTCTATTG
AACTGTCTTAAGGATTTGTTTAAACAGCTAAGTTACTTGATTAAAATAATGATAAAATTGTAAAAAAAAAAAAA

FIGURE 4099

MSVNVNRSVSDQFYRYKMPRLIAKVEGKGNGIKTVIVNMVDVAKALNRPPTYPTKYFGCELGAQTQFDVKNDRYI
VNGSHEANKLQDMLDGFIKKFVLCPECENPETDLHVNPKKQTIGNSCKACGYRGMLDTHHKLCTFILKNPPENSD
SGTGKKEKEKKNRKGKDKENGSVSSSETPPPPPPPPNEINPPPHTMEEEEDDDWGEDTTEEAQRRRMDEISDHAKV
LTLSDDLERTIEERVNILFDFVKKKKEEGVIDSSDKEIVAEAERLDVKAMGPLVLTEVLFNEKIREQIKKYRRHF
LRFCHNNKKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEVIISWSEKASKKYVSKELAKEIRVKA
EPFIKWLKEAEEESSGGEEEDEDENIEVVYSKAASVPKVETVKSDNKDDDIDIDAI

4445/6881
FIGURE 4100

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GCCCGCCGCCGCCATGCCCTTCTCCAACAGCCACAACGCACTGAAGCTGCGCTTCCCGGCCGAGGACGAGTTCCC
CGACCTGAGCGCCCACAACAACCACATGGCCAAGGTGCTGACCCCCGAGCTGTACGCGGAGCTGCGCGCCAAGAG
CACGCCGAGCGGCTTCACGCTGGACGACGTCATCCAGACAGGCGTGGACAACCCGGGCCACCCGTACATCATGAC
CGTGGGCTGCGTGGCGGGCGACGAGGAGTCCTACGAAGTGTTCAAGGATCTCTTCGACCCCATCATCGAGGACCG
GCACGGCGGCTACAAGCCCAGCGATGAGCACAAGACCGACCTCAACCCCGACAACCTGCAGGGCGGCGACGACCT
GGACCCCAACTACGTGCTGAGCTCGCGGGTGCGCACGGGCCGCAGCATCCGTGGCTTCTGCCTCCCCCGCACTG
CAGCCGCGGGGAGCGCCGCGCCATCGAGAAGCTCGCGGTGGAAGCCCTGTCCAGCCTGGACGGCGACCTGGCGGG
CCGATACTACGCGCTCAAGAGCATGACGGAGGCGGAGCAGCAGCAGCTCATCGACGACCACTTCCTCTTCGACAA
GCCCGTGTCGCCCCTGCTGCTGGCCTCGGGCATGGCCCGCGACTGGCCCGACGCCCGCGGTATCTGGCACAATGA
CAATAAGACCTTCCTGGTGTGGGTCAACGAGGAGGACCACCTGCGGGTCATCTCCATGCAGAAGGGGGGCAACAT
GAAGGAGGTGTTCACCCGCTTCTGCACCGGCCTCACCCAGATTGAAACTCTCTTCAAGTCTAAGGACTATGAGTT
CATGTGGAACCCTCACCTGGGCTACATCCTCACCTGCCCATCCAACCTGGGCACCGGGCTGCGGGCAGGTGTGCA
TATCAAGCTGCCCAACCTGGGCAAGCATGAGAAGTTCTCGGAGGTGCTTAAGCGGCTGCGACTTCAGAAGCGAGG
CACAGGCGGTGTGGACACGGCTGCGGTGGGCGGGGTCTTCGACGTCTCCAACGCTGACCGCCTGGGCTTCTCAGA
GGTGGAGCTGGTGCAGATGGTGGTGGACGGAGTGAAGCTGCTCATCGAGATGGAGCAGCGGCTGGAGCAGGGCCA
GGCCATCGACGACCTCATGCCTGCCCAGAAATGAAGCCCGGCCCACACCCGACACCAGCCCTGCTGCTTCCTAAC
TTATTGCCTGGGCAGTGCCCACCATGCACCCCTGATGTTCGCCGTCTGGCGAGCCCTTAGCCTTGCTGTAGAGAC
TTCCGTCACCCTTGGTAGAGTTTATTTTTTTGATGGCTAAGATACTGCTGATGCTGAAATAAACTAGGGTTTTGG
CCTGC
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4446/6881
FIGURE 4101

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AGGACGGCGGGAAGAGGAGTGCGGAACCCGCGGGAGGATGTGCACAGAGGGCCCAGGAGGAGCCTCAGGAGCCGG
ACTGCCGTTGGCCAACCGAGTCCCCAGGGAGACACTTAAGGGAAATTAAACTGCAGAGTGCAAGAGATGCCTCAG
TCAAGTCAGCCAAAAACACGCGGGTCATCCCCAAGCCCCAGAGAGTGACAGAGCCCCGATGACACGGACACCTCG
GCTGCTGTCACTTCCCTGGTTCGGGCCTCCCACAGGCTTTGAATTGAAGGCGAGTGCCTCAGAATTTGCATCCAT
TGTTCTGTCTTTCCTGGGAAGTTATTCATCCTGGTGGCCAGCCCACCGACAAAATGGATTTGGATCTACTGGACC
TGAATCCCAGAATTATTGCTGCAATTAAGAAAGCCAAACTGAAATCGGTAAAGGAGGTTTTACACTTTTCTGGAC
CAGACTTGAAGAGACTGACCAACCTCTCCAGCCCCGAGGTCTGGCACTTGCTGAGAACGGCCTCCTTACACTTGC
GGGGAAGCAGCATCCTTACAGCACTGCAGCTGCACCAGCAGAAGGAGCGGTTCCCCACGCAGCACCAGCGCCTGA
GCCTGGGCTGCCCGGTGCTGGACGCGCTGCTCCGCGGTGGCCTGCCCCTGGACGGCATCACTGAGCTGGCCGGAC
GCAGCTCGGCAGGGAAGACCCAGCTGGCGCTGCAGCTCTGCCTGGCTGTGCAGTTCCCGCGGCAGCACGGAGGCC
TGGAGGCTGGAGCCGTCTACATCTGCACGGAAGACGCCTTCCCGCACAAGCGCCTGCAGCAGCTCATGGCCCAGC
AGCCGCGGCTGCGCACTGACGTTCCAGGAGAGCTGCTTCAGAAGCTCCGATTTGGCAGCCAGATCTTCATCGAGC
ACGTGGCCGATGTGGACACCTTGTTGGAGTGTGTGAATAAGAAGGTCCCCGTACTGCTGTCTCGGGGCATGGCTC
GCCTGGTGGTCATCGACTCGGTGGCAGCCCCATTCCGCTGTGAATTTGACAGCCAGGCCTCCGCCCCCAGGGCCA
GGCATCTGCAGTCCCTGGGGGCCACGCTGCGTGAGCTGAGCAGTGCCTTCCAGAGCCCTGTGCTGTGCATCAACC
AGGTGACAGAGGCCATGGAGGAGCAGGGCGCAGCACACGGGCCGCTGGGGTTCTGGGACGAACGTGTTTCCCCAG
CCCTTGGCATAACCTGGGCTAACCAGCTCCTGGTGAGACTGCTGGCTGACCGGCTCCGCGAGGAAGAGGCTGCCC
TCGGCTGCCCAGCCCGGACCCTGCGGGTGCTCTCTGCCCCCCACCTGCCCCCCTCCTCCTGTTCCTACACGATCA
GTGCCGAAGGGGTGCGAGGGACACCTGGGACCCAGTCCCACTGACACGGTGGCGGCTGCACAACAGCCCTGCCTG
AGAAGCCCCGACACACGGGGCTCGGGCCTTTAAAACGCGTCTGCCTGGGCCGTGGCACAGCTGGGAGCCTGGTTC
AGACACAGCTCTTCCAGGGCAGCGGCTCCACTTTCTCATCCGAAGATGGTGGCCACAGACTGACCCCCATCTGAG
CTGGGGGGATGTTCTGCCTCTCCCTGGGTCTGGGGACAGGCCCGCTTGCTGGGTACCTGGTCCCCACTGCTGAGC
TGGCCCTTGGGGAGAGGTGATTCTCAGGGCTGGAGCCTGGGGTGTCCTACAGTGACTCCCTGGGAGCCGCCTGCT
TCTTCTCTCCATATGGAAGCCCAACTGGGGTTGCGTCTGAGGCCTGCCCCCTGGGCTGGGGCCTCAGACCCCCTC
AGCCTTGGGACCGTGCCCACGAGGGTCTTCCCTCCTGCACACAGGGCAGTCCTTACTCCCCCACCACTCAGGCCA
CAGTGGGGCTGCAGGCAGGCGGCTCCTCCTCACCCACCTCTGGGTCCTTGGCTCCCGGGGGCCCCACCTCGGCAC
ACACTGTGCCCCACAAAACTTCAGTGTGGTACAAGGTGGAGAAAGCATATCCCACCAACCTCCAGTGTCAGGGTC
CAGGAGAGCCTGGGGGTGGGGGGACTGCCTTGTCTCTAGTAGTGTGGCCTGTGCCAGCACCACAGCCGGTCAGAG
GAGCGCAGGCAGCGCAGGGCTGGCACGTGACAGGCTCGTCAGCCACCTGGGAACACAGTTCTGGGCAAAGAGGAT
CCGAGGTTGAGAGGAAGGAGGGTCCCGGTGTATCCTGGCCCTGGGGGTCTGGGCGTCCAGCTCAGCCCTGGCCTG
GCTGGGTGGTATTCTGGTAGGGATATGGCAGGACTCCTGGCAGGGCCACCTGCAGGACCCTGTCCTGCAGTCCCA
CACTGTGCAGACCCAGTCCCACACTGTGGCCAGGCCTTACATCTGGCTGGAAAGCAGAGCCTCCTGGGAACACAT
CTGGCTGCACAGGCTGAAATATCCACCCAGCAGGCAGAGTGGCGTGGCCTCCCCATGGGCACAGTGGTGACCCCC
TTGATTCCCACCGTACAACCCCCTCCACCCCCCACTCAGTGCCTCCACATGCTGCCTGGCACAGACCAGGCCTTT
GACAAATAAATGTTCAATGGATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 4102

MDLDLLDLNPRIIAAIKKAKLKSVKEVLHFSGPDLKRLTNLSSPEVWHLLRTASLHLRGSSILTALQLHQQKERF
PTQHQRLSLGCPVLDALLRGGLPLDGITELAGRSSAGKTQLALQLCLAVQFPRQHGGLEAGAVYICTEDAFPHKR
LQQLMAQQPRLRTDVPGELLQKLRFGSQIFIEHVADVDTLLECVNKKVPVLLSRGMARLVVIDSVAAPFRCEFDS
QASAPRARHLQSLGATLRELSSAFQSPVLCINQVTEAMEEQGAAHGPLGFWDERVSPALGITWANQLLVRLLADR
LREEEAALGCPARTLRVLSAPHLPPSSCSYTISAEGVRGTPGTQSH

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FIGURE 4103A

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CAGGTGATCCTCTACGATCCCGCCGCCGGTCCCCCAGGCAGCGCAGGCCCCCGGCGAGCCGCCACTGCTGCAGTT
CCCAAGATGTTTGCCTTCGATGCCGTCTTCCCCCAGGACTCCGAGCAGGCCGAAGTCTGCTCGGGGACCGTGGCC
GACGTGCTCCAGTCGGTGGTCAGTGGGGCTGATGGCTGCATTTTTTCCTTTGGCCACATGAGCCTGGGCAAGTCG
TACACCATGATCGGGAAGGACAGCTCACCCCAGAGCCTGGGCATCGTGCCCTGCGCCATCTCCTGGCTCTTCAGG
CTCATCGAGGAGCGCAGGGAGAGGACGGGCACCCGCTTCTCCGTCCGGGTCTCAGCCGTGGAGGTGTGCGGGCGC
GACCAGAGCCTGCGGGACCTGCTGGCCGAGGTGGCCCCTGGCAGCCTCCAGGACACCCAGTCTCCGGGAGTGTAC
CTGCGGGAGGACCCCGTGTGTGGGGCGCAGCTCCAGAACCAAAGCGAGCTGCGGGCACCCACGGCCGAGAAGGCG
GCTTTCTACCTGGATGCGGCCCTGGCGGCCCGCAGCACCAGCCGAGCGGGCTGTGGCGAGGACGCCCGACGCAGC
TCCCACATGTTGTTCACGCTGCACGTCTACCAGTACCGCATGGAGAAGTGCGGCCGGGGAGGAATGTCCGGAGGC
CGCAGCCGCCTGCACCTCATCGACCTGGGCAGCTGTGAGGCGGCGGCTGGCAGGGCCGGGGAGGCTGCTGGGGGT
CCCCTGTGTCTGTCCCTGTCGGCCCTGGGCAGCGTCATCTTGGCCCTGGTCAACGGAGCCAAGCATGTGCCGTAT
CGGGACCACAGGCTCACCATGCTGCTGCGTGAATCCCTGGCCACCGCTGGCTGCCGCACCACCATGATCGCCCAC
GTGTCGGATGCGCCAGCCCAGCACGCAGAGACACTCAGCACCGTGCAGCTCGCCGCCCGCATCCACCGCCTGCGC
AGGAAGAAGGCCAAGTACGCCTCCAGCTCCTCTGGCGGGGAGAGCTCCTGTGAGGAAGGCCGGGCCCGTCGGCCC
CCGCACCTGCGGCCCTTCCACCCACGCACTGTGGCCCTGGACCCCGACCGCACGCCTCCCTGCCTGCCCGGTGAC
CCCGATTACTCCTCCAGCAGCGAGCAGTCCTGTGACACGGTCATCTACGTGGGGCCCGGTGGGGCGGCGCTGTCA
GACCGGGAGCTCACCGACAACGAAGGTCCGCCTGACTTCGTGCCCATCATCCCTGCCCTGAGCCGCCACCGGCCC
TCCAAGGGTCCCCGAGACGCAGACCACTTCCGCTGCAGCACCTTCGCGGAGCTGCAGGAGCGGCTGGAATGCATG
GACGGCAACGAGGGTCCCTCAGGAGGTCCAGGTGGCACCGACGGAGCTCAGGCCAGCCCCGCCCGAGGGGGCCGG
AAGCCCTCGCCACCAGAGGCTGCATCCCCCAGGAAGGCTGTGGGCACCCCGATGGCTGCCAGCACCCCTCGAGGC
AGTTCTGGTCCAGACACCCACCAGGGTACCCCTGAGCCCTGCAAGGCCATTGTCTGGGGTGACCAGAGAGAGGAC
AGCAGCGCTTGGCCTGAGCTGCTGGTCCCGGAAAAGGCTGCAGTGAGTGGAGGCAGGAGGCCACTGCCCAGCCCG
GCTCCCCCACCTCCTCAGTTGCTGGAAGCCTGCAGAGCCCCAGAAGAGCCTGGGGGAGGGGGCACTGATGGAGTG
GCACGGACCCCTCCCGTGGGCATGAGTGGGCAGGTGGCTGGGTCCCCGATGCTTCCTGGGGCCACCTGCCCCCGC
CTGGCTGCTGGCAGTCGCTGTCCGGAGCGGGGCCTGCTCACCACCACAGTGACCCTGCAGCGGCCAGTGGAGCTC
AACGGCGAGGACGAGCTGGTGTTCACGGTGGTGGAGGAGCTGTCCCTGGGGGCGCTTGCCGGAGCTGGGCGGCCC
ACCAGCCTGGCTAGCTTCGACAGTGACTGCTCCCTGCGGGCCCTGGCCTCGGGGTCCCGGCCGGTCAGCATCATC
AGCAGCATCAATGATGAGTTTGACGCCTACACCTCTCAGGCCCCTGAGGGGGGGCCCCTGGAGGGGGCAGCCTGG
GCCGGCAGCAGTCACGGCTCCTCCATCAGCTCCTGGCTCAGCGAGGTCAGCGTCTGCACTGCCGACAGCCGTGAC
CCCACGCCGCAGCCCCGCTTCAGCCCCGACTCGCTGGCAGGGCTTGACCCTGGGGCCCCCCTGCCCTGGATGGT
TCCCTGGGGGATGGAAGCTCTGGGTTCCTGGGGCCAGACAGACCTGACAGTCCTGGGCCAACCTGGGGTCCGTGC
CCTGGGGAAGTGGCTGCAGTGGCCCCATCCCGACCCGGCAGGGAGCCCCAGGCCGGGCCCTCGCGGTGGGCATCC
GCAGCCCAGACCATCCACTCCAGCCTCCCCCGGAAACCGAGGACTGCCTCTGCCACCACCCGTGTGGGCTGTGCT
CGCCTGGGCCAGAGCCCACCTGGCCGTGGAGGCCTGTTTGAGGACCCATGGCTGCTCCGGGTAGGGGAGTGTGAT
ACCCAGGCAGCTTCTGCTGGCAGGGCCCCCAGCCCCACACTTGGCTCCCCCCGGCTGCCTGAGGCCCAGGTGATG
CTAGCCTGTGCCCAGAGAGTGGTGGACGGGTGTGAGGTGGCAGCCAGGGCGGCCCGCAGGCCAGAGGCTGTGGCT
CGGATCCCACCGCTGCGGAGGGGTGCCACCACGCTGGGTGTGACAACGCCAGCTGTGTCCTGGGGAGATGCTCCC
ACGGAGGTGGTGGCCTGCTCGGGGAGCCTGAAGGCCTCCCCCACCAGCAAGAAGGGTCTGGCTCCCAAGGCGGGC
TTCCTCCCGAGGCCCAGTGGGGCGGCCCCCCCGGCCCCACCCACGCGGAAGTCCAGCCTGGAGCAGAGGAGCAGC
CCGGCCTCGGCCCCTCCGCATGCTGTGAACCCGGCGCGGGTCGGGGCTGCTGCTGTCCTTCGAGGGGAGGAGGAG
CCCAGACCCAGCAGCCGGGCTGACCACTCTGTCCCCAGGGCCACGTCCAGCCTGAAGGCCCGGGCCAGCAAGGTA
GAAGCGGCACACCGTCTCGCCGGACACGCGTCTCTGGAGCGGTACGAAGGCCTGGCGCACAGCAGCAGCAAGGGC
CGGGAAGCCCCTGGGCGGCCTCCCCGGGCTGTACCCAAGCTGGGTGTGCCACCCTCCAGCCCCACACACGGTCCA
GCTCCCGCCTGTAGGAGCGGCGCAGCCAAGGCTGTGGGGGCCCCCAAGCCCCCTGTTGGTGGAGGCAAGGGCCGT
GGCCTAGTGGCTGGTGGGTCGCGGGCTCTGGGCCTTCGGTGAAGCTGTCTACGGCCTCTGTGACGGGCAGGAGC
CCTGGCGGCCCTGTGGCAGGTCCCAGAGCAGCCCCACGGGCCGGGCCCAGTGTCGGGGCGAAGGCTGGCCGGGGT
ACCGTCATGGGCACAAAGCAGGCGCTCCGGGCTGCTCACAGCCGCGTCCATGAGCTGTCAGCCAGTGGAGCCCCG
GGCCGGGGTGGCTCCTCGTGGGGCTCGGCGGACTCAGACAGCGGCCATGACAGCGGCGTGAACGTGGGGGAGGAG
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FIGURE 4103B

CGGCCACCCACGGGCCCGGCCCTGCCCTCCCCCTACAGCAAGGTGACCGCCCCACGGCGGCCCCAGCGCTACAGC
AGCGGCCATGGCAGCGACAACAGCAGCGTGCTGAGTGGAGAGCTGCCGCCCGCCATGGGCCGCACCGCCCTTTTC
CACCACAGCGGTGGCAGCAGCGGCTATGAGAGCCTGCGGCGCGACAGCGAGGCCACCGGCAGCGCCTCCTCCGCC
·CCTGACTCCATGAGCGAGAGTGGGGCTGCCTCCCCAGGCGCCCGCACCCGCAGCCTCAAGTCCCCCAAGAAGAGG
GCCACAGGTCTGCAGCGGCGGCGCCTGATTCCCGCCCCACTGCCCGACACCACTGCCCTGGGCCGTAAGCCCAGC
CTCCCCGGGCAGTGGGTGGACCTGCCCCCGCCCCTGGCTGGCTCCCTGAAGGAGCCGTTCGAGATCAAGGTGTAC
GAGATCGATGACGTGGAGCGCCTTCAGCGGCCCCGCCCCACCCCGAGGGAGGCCCCCACCCAGGGTCTGGCGTGC
GTCAGTACAAGGCTGCGGCTGGCGGAGCGCAGGCAGCAGCGGCTGCGGGAGGTGCAGGCCAAGCACAAGCACCTG
TGTGAGGAGCTGGCCGAGACCCAGGGCCGGCTGATGCTGGAGCCTGGCCGCTGGCTGGAGCAGTTTGAGGTGGAC
CCGGAGCTGGAGCCCGAGTCGGCCGAGTACCTGGCGGCCCTGGAGCGAGCCACGGCGGCCCTGGAGCAGTGCGTG
AACCTGTGCAAGGCGCACGTCATGATGGTCACCTGCTTCGACATCAGCGTTGCAGCCAGTGCTGCCATCCCGGGG
CCGCAGGAGGTGGACGTCTGAGGCTGGGCGCCGGACAAGAGGAGGGGGCGTGCAGCGGGCTGGAGGACGGGACGT
GGGACGGAGCGAGGATGTGGTGGGGGCTGCGGGGGGAGGATGCGGAGGGGTTTCTGTGCAGGACGGGAGTCTCAG
AGAGGAGACGGAGTGTGGGGGAGGGAGGGCCGGCCACGCGGTGGACAGAGCGAGGGTGCCAGGGTGACCCGAAGA
CCGTCACCACCCGACAGCAACGCAAGTGCCTTTGACCTTGATTTGGACTTTTCTCCCTTTTGCATTTGGTGCTAC
AGACTTGAGACACCAGCAGAAGTTGTGTTCAGCCCGGCCCCGCTGCGCCTGTCCGGGCCGGGGCTGGCGCCGGTT
GTGTTTGTGTCCACCTTGCCTTCTTTGCAGCCAAGCAGTTTTTGTGGAGTGGGACTTACCTGCACGCCCCAGGGG
TCTTTCAGGATTCAGGATGACTTTTCTTTTACAATGGTTTCCTCTCGGCAGAGCCCGGGTTGTGGGGGATCTGTG
TGGGTTCTCAACGCAGATCCATCCTGGGGTCTCCCGGGCAGGGATGGCTGACCTCGAGTCCCCTCCCTTCCCGAG
AACCTGCTCTGTCCCGAGGGCAGCTAACAAGGGCTGAGCCCCAGGTACAGGTTGCCTCCTCCACGGCAGGAATTT
TTACCAAAACCACAAGCAAAAAACAAAACAGACCACCACGACCAACAACAAAGATGGGGGGTAGGGTTTTGTAAA
GGTTCTGTTAGGTTCATATTTTTATATCATTTTGCCCATAAATGCGGAATTTGCCGTGGGAATTTGAAGACAAAT
GATCTATGTTTTTATGGTTTTCTAGGGAAGGTGTTCTGGGGGCCGGGCTCTCTCCAGCTGTGGGAGGCCTGCTCC
CTCTGGGGGGCACCCTGGGCAGGTGGGGGGGCCTTGGGAGGCGCTTCTTGCCAAATGCAGACGAGGGGTGAGCC
TGCCAGCGTTTGCGACGTCCCCGCACGACAGGCTCATACTTTCTGAGGATCGTGCATAGCATAGGACGTCTGAAC
CTTTGTACAAATGTGTAGATGACATCTTGCTACAGCTTTTATTTG**TGA**ATTAAAGATGCATTGATGGTT

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FIGURE 4104

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MHLLQAPASHEDLDAPHGGPSLAPPSTTTSSRDTPGPAGPAGRQPGRAGPDRTKGLAWSPGPSVQVSVAPAGLGG
ALSTVTIQAQQCLEGMWSVSRVNSFLPPACLAEAAVAAVAVADTVRECPPVAGPDGLSKAWGRGGVCTSALVTPT
PGSVGGSTGPSAAASFFIRAMQKLSLASKRKKPHPPPPPATRGTSTYPTDFSGVLQLWPPPAPPCLLRAASKTKD
NPGSIGKVKVMLRIWPAQGAQRSAEAMSFLKVDPRKKQVILYDPAAGPPGSAGPRRAATAAVPKMFAFDAVFPQD
SEQAEVCSGTVADVLQSVVSGADGCIFSFGHMSLGKSYTMIGKDSSPQSLGIVPCAISWLFRLIEERRERTGTRF
SVRVSAVEVCGRDQSLRDLLAEVAPGSLQDTQSPGVYLREDPVCGAQLQNQSELRAPTAEKAAFYLDAALAARST
SRAGCGEDARRSSHMLFTLHVYQYRMEKCGRGGMSGGRSRLHLIDLGSCEAAAGRAGEAAGGPLCLSLSALGSVI
LALVNGAKHVPYRDHRLTMLLRESLATAGCRTTMIAHVSDAPAQHAETLSTVQLAARIHRLRRKKAKYASSSSGG
ESSCEEGRARRPPHLRPFHPRTVALDPDRTPPCLPGDPDYSSSSEQSCDTVIYVGPGGAALSDRELTDNEGPPDF
VPIIPALSRHRPSKGPRDADHFRCSTFAELQERLECMDGNEGPSGGPGGTDGAQASPARGGRKPSPPEAASPRKA
VGTPMAASTPRGSSGPDTHQGTPEPCKAIVWGDQREDSSAWPELLVPEKAAVSGGRRPLPSPAPPPPQLLEACRA
PEEPGGGGTDGVARTPPVGMSGQVAGSPMLPGATCPRLAAGSRCPERGLLTTTVTLQRPVELNGEDELVFTVVEE
LSLGALAGAGRPTSLASFDSDCSLRALASGSRPVSIISSINDEFDAYTSQAPEGGPLEGAAWAGSSHGSSISSWL
SEVSVCTADSRDPTPQPRFSPDSLAGLDPGGPPALDGSLGDGSSGFLGPDRPDSPGPTWGPCPGEVAAVAPSRPG
REPQAGPSRWASAAQTIHSSLPRKPRTASATTRVGCARLGQSPPGRGGLFEDPWLLRVGECDTQAASAGRAPSPT
LGSPRLPEAQVMLACAQRVVDGCEVAARAARRPEAVARIPPLRRGATTLGVTTPAVSWGDAPTEVVACSGSLKAS
PTSKKGLAPKAGFLPRPSGAAPPAPPTRKSSLEQRSSPASAPPHAVNPARVGAAAVLRGEEEPRPSSRADHSVPR
ATSSLKARASKVEAAHRLAGHASLERYEGLAHSSSKGREAPGRPPRAVPKLGVPPSSPTHGPAPACRSGAAKAVG
APKPPVGGGKGRGLVAGGSRALGPSVKLSTASVTGRSPGGPVAGPRAAPRAGPSVGAKAGRGTVMGTKQALRAAH
SRVHELSASGAPGRGGSSWGSADSDSGHDSGVNVGEERPPTGPALPSPYSKVTAPRRPQRYSSGHGSDNSSVLSG
ELPPAMGRTALFHHSGGSSGYESLRRDSEATGSASSAPDSMSESGAASPGARTRSLKSPKKRATGLQRRRLIPAP
LPDTTALGRKPSLPGQWVDLPPPLAGSLKEPFEIKVYEIDDVERLQRPRPTPREAPTQGLACVSTRLRLAERRQQ
RLREVQAKHKHLCEELAETQGRLMLEPGRWLEQFEVDPELEPESAEYLAALERATAALEQCVNLCKAHVMMVTCF
DISVAASAAIPGPQEVDV
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FIGURE 4105

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CACTACTGCCCTGCACCTGCAGCCCCCCCGTGGCGGGAGGCATGGAGGAGGTCATCGTGGCCCAGGTGGACCATG
GCTTGGGCTCAGCATGGGTCCCCAGCCATCGGCGGGTGAACCCACCCACACTGCGCATGAAGAAGCTGAACTGGC
AGAAGCTGCCATCCAACGTGGCACGTGAGCACAACTCTATGTGGGCGTCCCTGAGCAGCCCCGACGCCGAGGCTG
TGGAGCCCGACTTCTCCAGCATCGAGCGACTATTCTCCTTCCCTGCAGCCAAGCCCAAGGAGCCCACCATGGTGG
CCCCCCGGGCCAGGAAGGAGCCCAAGGAGATCACTTTCCTCGATGCCAAGAAGAGCCTGAACCTCAACATCTTCC
TGAAGCAATTTAAGTGCTCCAACGAGGAGGTCGCTGCTATGATCCGGGCTGGAGATACCACCAAGTTTGATGTGG
AGGTTCTCAAACAACTCCTTAAGCTCCTTCCCGAGAAGCACGAGATTGAAAACCTGCGGGCATTCACAGAGGAGC
GAGCCAAGCTGGCCAGCGCCGACCACTTCTACCTCCTCCTGCTGGCCATTCCCTGCTACCAGCTGCGAATCGAGT
GCATGCTGCTGTGTGAGGGCGCGGCCGCCGTGCTGGACATGGTGCGGCCCAAGGCCCAGCTGGTGCTGGCTGCCT
GCGAAAGCCTGCTCACCAGCCGCCAGCTGCCCATCTTCTGCCAGCTGATCCTGAGAATTGGGAACTTCCTCAACT
ACGGCAGCCACACCGGTGACGCCGACGGCTTCAAGATCAGCACATTGCTGAAGCTCACGGAGACCAAGTCCCAGC
AGAACCGCGTGACGCTGCTGCACCACGTGCTGGAGGAAGCGGAAAAGAGCCACCCCGACCTCCTGCAGCTGCCCC
GGGACCTGGAACAGCCCTCGCAAGCAGCAGGGATCAACCTGGAGATCATCCGCTCAGAGGCCAGCTCCAACCTGA
AGAAGCTTCTGGAGACCGAGCGGAAGGTGTCTGCCTCCGTGGCCGAGGTCCAGGAGCAGTACACCGAGCGCCTCC
AGGCCAGCATCTCGGCCTTCCGGGCACTGGATGAGCTGTTTGAGGCCATCGAGCAGAAGCAACGGGAGCTGGCCG
ACTACCTGTGTGAGGACGCCCAGCAGCTGTCCCTGGAGGACACGTTCAGCACCATGAAGGCTTTCCGGGACCTTT
TCCTCCGCGCCCTGAAGGAGAACAAGGACCGGAAGGAGCAGGCGGCGAAGGCAGAGAGGAGGAAGCAGCAGCTGG
CGGAGGAGGAGGCGCGGCGGCCTCGGGGAGAGGACGGGAAGCCTGTCAGGAAGGGGCCCGGGAAGCAGGAGGAGG
TGTGTGTCATCGATGCCCTGCTGGCTGACATCAGGAAGGGCTTCCAGCTGCGGAAGACAGCCCGGGGCCGCGGGG
ACACCGACGGGGGCAGCAAGGCAGCCTCCATGGATCCCCCAAGAGCCACAGAGCCTGTGGCCACCAGTAACCCTG
CAGGAGATCCCGTGGGCAGCACGCGCTGTCCCGCCTCTGAGCCCGGCCTTGATGCTACAACAGCCAGCGAGTCCC
GGGGCTGGGACCTTGTAGACGCCGTGACCCCCGGCCCTCAGCCCACCCTGGAGCAGTTGGAGGAGGGTGGTCCAC
GGCCCCTGGAGAGGCGTTCTTCCTGGTATGTGGATGCCAGCGATGTCCTAACCACTGAGGATCCCCAGTGCCCCC
AGCCCTTGGAGGGGGCCTGGCCGGTGACTCTGGGAGATGCTCAGGCCCTGAAGCCCCTCAAGTTCTCCAGCAACC
AGCCCCCTGCAGCCGGAAGTTCAAGGCAAGATGCCAAGGATCCCACGTCCTTGCTGGGCGTCCTCCAGGCCGAGG
CCGACAGCACAAGTGAGGGGCTGGAGGACGCTGTCCACAGCCGTGGTGCCAGACCCCCTGCAGCAGGCCCAGGTG
GGGATGAGGACGAGGACGAGGAGGACACGGCCCCAGAGTCCGCACTGGACACATCCCTGGACAAGTCCTTCTCCG
AGGATGCGGTGACCGACTCCTCGGGGTCGGGCACACTCCCCAGGGCCCGGGGCCGGGCCTCAAAGGGGACCGGGA
AGCGAAGGAAGAAGCGTCCCTCCAGGAGCCAGGAAGGCCTCAGGCCCAGGCCCAAGGCCAAGTGAGAGAGCCCAG
GCCACAGGACATGCTGCCATTCTGCCAAGAGAGGCTCTTCTGGGGGCCAGGCTGGGACTGGGCCCCGGAAACCAA
AACTCCGTGCCTTACCCAGCCGGGGCCCTCCTGGAGCCTTCTTGGGGTGTTGTGGCTGGGAACCCGACAGGCACC
AGTGCCCTGCCAGGCCTGGTGCCCTCCTGGACCGCCTGCACGTGCCAGCCTCCCACCTGCTTCCTAAAGGCAACC
CTGGCCCACACCCGCATGCGCCCGGTGCAGCCTGCCAAGGGCCAGTCGGGGGGTGCTGCGTCCTGCCAGTGTCCA
CCACAGCTCTGCCTGCCCTTCAGCCCAGCAAGGTTTAATCAAAATGCAATGCTTTGCAAGTCTTTACTGCTTGGA
GGTGGCTGAGTTGGGGGCCCTGGGCAGGGGTAAGCTGGCAGGCAGTGCCATGGCAGGCCAGGGTCCCCTCCCATG
GGGTCTGGCCCCCGTTCCAGCATGTCCAGCCCCTGAAGTTGGAGTGGGGGGCGGTCTGCCTTTGCTGCCACTGCC
AGGCCTCTGCCCTGCAGCTGAAACTTGGCCATCACATCAACAGAAAACCCCTCCCAGTGCCAGCTGCCCAGCGTG
GGCAGGCCCTGGGGACAATACAGGTCCACCTGAGGGGCTGCAGGGTGACACCCAGCAGCCGCTGCCCCCTCACTG
CCCACCCAGCGAGGGCAGCCTACCCGAGCCTGCCCCCTGCCAGGTGTGTGCCCTGAGGCTGGCGGCTGGATGCGT
GGCCAATAAAAAGCAGACCTAG
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4452/6881
FIGURE 4106

GCGGCCGGGGAGCTGCGTAGCTCCCGGCCCCGCGGCC**ATG**CCCAAGCGGAGCTGCCCCTTCGCGGACGTGGCCCC
GCTACAGCTCAAGGTCCGCGTGAGCCAGAGGGAGTTGAGCCGCGGCGTGTGCGCCGAGCGCTACTCGCAGGAGGT
CTTCGAGAAGACCAAGCGACTCCTGTTCCTCGGGGCCCAGGCCTACCTGGACCACGTGTGGGATGAAGGCTGTGC
CGTCGTTCACCTGCCAGAGTCCCCAAAGCCTGGCCCTACAGGGGCCCCGAGGGCTGCACGTGGGCAGATGCTGAT
TGGACCAGACGGCCGCCTGATCAGGAGCCTTGGGCAGGCCTCCGAAGCTGACCCATCTGGGGTAGCGTCCATTGC
CTGTTCCTCATGCGTGCGAGCCGTGGATGGGAAGGCGGTCTGCGGTCAGTGTGAGCGAGCCCTGTGCGGGCAGTG
TGTGCGCACCTGCTGGGGCTGCGGCTCCGTGGCCTGTACCCTGTGTGGCCTCGTGGACTGCAGTGACATGTACGA
GAAAGTGCTGTGCACCAGCTGTGCCATGTTCGAGACC**TGA**GGCTGGCTCAAGCCGGCTGCCTTCACCGGGAGCCA
CGCCGTGCATGGCAGCCTTCCCTGGACGAGCGCTCGGTGTTCACACTGAACTGTGGGGTCGACGGGAGGGGTGCC
TTTTACATGTTCTATTTTGTATCCTAATGACAGAATGAATAAACCTCTTTATATTTGCAAAAAAAAAAAAAAAAAA
A

FIGURE 4107

MPKRSCPFADVAPLQLKVRVSQRELSRGVCAERYSQEVFEKTKRLLFLGAQAYLDHVWDEGCAVVHLPESPKPGP
TGAPRAARGQMLIGPDGRLIRSLGQASEADPSGVASIACSSCVRAVDGKAVCGQCERALCGQCVRTCWGCGSVAC
TLCGLVDCSDMYEKVLCTSCAMFET

4454/6881
FIGURE 4108

GCGGCCGGGGAGCTGCGTAGCTCCCGGCCCCGCGGCC<u>ATG</u>CCCAAGCGGAGCTGCCCCTTCGCGGACGTGGCCCC
GCTACAGCTCAAGGTCCGCGTGAGCCAGAGGGAGTTGAGCCGCGGCGTGTGCGCCGAGCGCTACTCGCAGGAGGT
CTTCGACCCATCTGGGGTAGCGTCCATTGCCTGTTCCTCATGCGTGCGAGCCGTGGATGGGAAGGCGGTCTGCGG
TCAGTGTGAGCGAGCCCTGTGCGGGCAGTGTGTGCGCACCTGCTGGGGCTGCGGCTCCGTGGCCTGTACCCTGTG
TGGCCTCGTGGACTGCAGTGACATGTACGAGAAAGTGCTGTGCACCAGCTGTGCCATGTTCGAGACC<u>TGA</u>GGCTG
GCTCAAGCCGGCTGCCTTCACCGGGAGCCACGCCGTGCATGGCAGCCTTCCCTGGACGAGCGCTCGGTGTTCACA
CTGAACTGTGGGGTCGACGGGAGGGGTGCCTTTTACATGTTCTATTTTGTATCCTAATGACAGAATGAATAAACC
TCTTTATATTTGCAAAAAAAAAAAAAAAAAA

4455/6881
FIGURE 4109

MPKRSCPFADVAPLQLKVRVSQRELSRGVCAERYSQEVFDPSGVASIACSSCVRAVDGKAVCGQCERALCGQCVR
TCWGCGSVACTLCGLVDCSDMYEKVLCTSCAMFET

4456/6881
FIGURE 4110

ATCCTGGGACAGGGCACAGGGCCATCTGTCACCAGGGGCTTAGGGAAGGCCGAGCCAGCCTGGGTCAAAGAAGTC
AAAGGGGCTGCCTGGAGGAGGCAGCCTGTCAGCTGGTGCATCAGAGGCTGTGGCCAGGCCAGCTGGGCTCGGGGA
GCGCCAGCCTGAGAGGAGCGCGTGAGCGTCGCGGGAGCCTCGGGCACCATGAGCGACGTGGCTATTGTGAAGGAG
GGTTGGCTGCACAAACGAGGGGAGTACATCAAGACCTGGCGGCCACGCTACTTCCTCCTCAAGAATGATGGCACC
TTCATTGGCTACAAGGAGCGGCCGCAGGATGTGGACCAACGTGAGGCTCCCCTCAACAACTTCTCTGTGGCGCAG
TGCCAGCTGATGAAGACGGAGCGGCCCCGGCCCAACACCTTCATCATCCGCTGCCTGCAGTGGACCACTGTCATC
GAACGCACCTTCCATGTGGAGACTCCTGAGGAGCGGGAGGAGTGGACAACCGCCATCCAGACTGTGGCTGACGGC
CTCAAGAAGCAGGAGGAGGAGGAGATGGACTTCCGGTCGGGCTCACCCAGTGACAACTCAGGGGCTGAAGAGATG
GAGGTGTCCCTGGCCAAGCCCAAGCACCGCGTGACCATGAACGAGTTTGAGTACCTGAAGCTGCTGGGCAAGGGC
ACTTTCGGCAAGGTGATCCTGGTGAAGGAGAAGGCCACAGGCCGCTACTACGCCATGAAGATCCTCAAGAAGGAA
GTCATCGTGGCCAAGGACGAGGTGGCCCACACACTCACCGAGAACCGCGTCCTGCAGAACTCCAGGCACCCCTTC
CTCACAGCCCTGAAGTACTCTTTCCAGACCCACGACCGCCTCTGCTTTGTCATGGAGTACGCCAACGGGGGCGAG
CTGTTCTTCCACCTGTCCCGGGAACGTGTGTTCTCCGAGGACCGGGCCCGCTTCTATGGCGCTGAGATTGTGTCA
GCCCTGGACTACCTGCACTCGGAGAAGAACGTGGTGTACCGGGACCTCAAGCTGGAGAACCTCATGCTGGACAAG
GACGGGCACATTAAGATCACAGACTTCGGGCTGTGCAAGGAGGGGATCAAGGACGGTGCCACCATGAAGACCTTT
TGCGGCACACCTGAGTACCTGGCCCCCGAGGTGCTGGAGGACAATGACTACGGCCGTGCAGTGGACTGGTGGGGG
CTGGGCGTGGTCATGTACGAGATGATGTGCGGTCGCCTGCCCTTCTACAACCAGGACCATGAGAAGCTTTTTGAG
CTCATCCTCATGGAGGAGATCCGCTTCCCGCGCACGCTTGGTCCCGAGGCCAAGTCCTTGCTTTCAGGGCTGCTC
AAGAAGGACCCCAAGCAGAGGCTTGGCGGGGGGCTCCGAGGACGCCAAGGAGATCATGCAGCATCGCTTCTTTGCC
GGTATCGTGTGGCAGCACGTGTACGAGAAGAAGCTCAGCCCACCCTTCAAGCCCCAGGTCACGTCGGAGACTGAC
ACCAGGTATTTTGATGAGGAGTTCACGGCCCAGATGATCACCATCACACCACCTGACCAAGATGACAGCATGGAG
TGTGTGGACAGCGAGCGCAGGCCCCACTTCCCCCAGTTCTCCTACTCGGCCAGCAGCACGGCCTGAGGCGGCGGT
GGACTGCGCTGGACGATAGCTTGGAGGGATGGAGAGGCGGCCTCGTGCCATGATCTGTATTTAATGGTTTTTATT
TCTCGGGTGCATTTGAGAGAAGCCACGCTGTCCTCTCGAGCCCAGATGGAAAGACGTTTTTGTGCTGTGGGCAGC
ACCCTCCCCCGCAGCGGGGTAGGGAAGAAAACTATCCTGCGGGTTTTAATTTATTTCATCCAGTTTGTTCTCCGG
GTGTGGCCTCAGCCCTCAGAACAATCCGATTCACGTAGGGAAATGTTAAGGACTTCTACAGCTATGCGCAATGTG
GCATTGGGGGGCCGGGCAGGTCCTGCCCATGTGTCCCCTCACTCTGTCAGCCAGCCGCCCTGGGCTGTCTGTCAC
CAGCTATCTGTCATCTCTCTGGGGCCCTGGGCCTCAGTTCAACCTGGTGGCACCAGATGCAACCTCACTATGGTA
TGCTGGCCAGCACCCTCTCCTGGGGGTGGCAGGCACACAGCAGCCCCCCAGCACTAAGGCCGTGTCTCTGAGGAC
GTCATCGGAGGCTGGGCCCCTGGGATGGGACCAGGGATGGGGGATGGGCCAGGGTTTACCCAGTGGGACAGAGGA
GCAAGGTTTAAATTTGTTATTGTGTATTATGTTGTTCAAATGCATTTTGGGGGTTTTTAATCTTTGTGACAGGAA
AGCCCTCCCCCTTCCCCTTCTGTGTCACAGTTCTTGGTGACTGTCCCACCGGAGCCTCCCCCTCAGATGATCTCT
CCACGGTAGCACTTGACCTTTTCGACGCTTAACCTTTCCGCTGTCGCCCCAGGCCCTCCCTGACTCCCTGTGGGG
GTGGCCATCCCTGGGCCCCTCCACGCCTCCTGGCCAGACGCTGCCGCTGCCGCTGCACCACGGCGTTTTTTTACA
ACATTCAACTTTAGTATTTTTACTATTATAATATAATATGGAACCTTCCCTCCAAATTCT

4457/6881
FIGURE 4111

MSDVAIVKEGWLHKRGEYIKTWRPRYFLLKNDGTFIGYKERPQDVDQREAPLNNFSVAQCQLMKTERPRPNTFII
RCLQWTTVIERTFHVETPEEREEWTTAIQTVADGLKKQEEEEMDFRSGSPSDNSGAEEMEVSLAKPKHRVTMNEF
EYLKLLGKGTFGKVILVKEKATGRYYAMKILKKEVIVAKDEVAHTLTENRVLQNSRHPFLTALKYSFQTHDRLCF
VMEYANGGELFFHLSRERVFSEDRARFYGAEIVSALDYLHSEKNVVYRDLKLENLMLDKDGHIKITDFGLCKEGI
KDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHEKLFELILMEEIRFPRTLGPE
AKSLLSGLLKKDPKQRLGGGSEDAKEIMQHRFFAGIVWQHVYEKKLSPPFKPQVTSETDTRYFDEEFTAQMITIT
PPDQDDSMECVDSERRPHFPQFSYSASSTA

4458/6881
FIGURE 4112

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AGCCTGCAGCGGCAGTCGCTCCTGGACATGTCTCTGGTGAAGTTGCAGCTTTGCCACATGCTTGTGGAGCCCAAC
CTGTGCCGCTCAGTCCTCATTGCCAACACGGTCCGGCAGATCCAAGAGGAGATGACGCAGGATGGGACGTGGCGC
ACAGTGGCACCCCAGGCTGCAGAGCGGGCGCCGCTCGACCGCTTGGTCTCCACGGAGATCCTGTGCCGTGCAGCG
TGGGGGCAAGAGGGGGCACATCCTGCTCCTGGCTTGGGGGACGGCCACACACAGGGTCCAGTTTCTGACCTTTGC
CCAGTCACCTCAGCACAGGCACCAAGGCACCTGCAGAGCAGCGCCTGGGAGATGGATGGCCCTCGAGAAAACAGA
GGAAGCTTTCACAAGTCACTTGATCAGATATTTGAAACGCTGGAGACTAAAAACCCCAGCTGCATGGAAGAGCTG
TTCTCAGACGTGGACAGCCCCTACTACGACCTGGACACAGTACTGACAGGCATGATGGGGGGTGCCAGGCCGGGC
CCCTGCGAAGGGCTCGAGGGCTTGGCTCCGGCCACCCCAGGCCCTAGCTCCAGCTGCAAGTCCGACCTGGGCGAG
CTGGACCACGTGGTGGAGATCCTGGTGGAGACCTGAGCAGGAGCCCTGAGTGCTCACAGCCGCCTCTGACGCATT
GACACGTGAGCACTGGCTCCCACGGAGGGTGCGCCTGCCGCCAGCGGCCCAGCCTTGCTGCCCTGTCTGCTGATT
CTGAGAAATCCCAGAACAGCCCATTACCAGTGGGGCTGCAGCCCTAGGCCCGTCCCACTCACCTCCCCCCTGTGG
AGCGCCAGGCAGAGGCTGTTCTGGAAGGCTTCTTGTCTTCTGACGTCCCCACAGCCCTGGGCCCCTCGTGTCTCT
TTGTGTCCCCCACTGTAGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTT
ACAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTTTATACCTTATCTCT
TTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAACATCCTTTGCTGCTACATTAGAACTTTTA
TAGCCTAAACAATTGCAGTTGGTGTGTTTCATTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTGTTTTGTTTT
TTGCAGTGAGCATCACTACAGTCTCAGTCAACAGTGTGAATGTATCATGTTTTACTTTAAATGTGTGTGTGATAC
TTCTTCATTATGTCCTGCGCTGCAGTGAGACCTGGGTGAAAATCAGGAGCCGCACACAGCCACATCTTCCTAGAC
CTAAGAGTAAATTATGGAGGATTTTATTTATGTCTATTTATATGTAAATGTCATTGAAGACAAAGGTCAAATATT
TGTCTGTTTGTAGATCACAGGCACCAGTTGGTCTTCAGGGACCTCATAGCCCCTCGGTGGTGCCTTCTCAAGGCA
GTGTTCCTGGAGGCTCCCATCAGGGTCAGCCCATGCACCTGCCCTGGGTGAGGAAGTAGCATTGCTGCTGGATGA
GAAACGCCTGCGCTGCTCTGTTAGACTGGTGCTGAAACAAAAGGTTAAGGCTAGGTTGAAGTCTAGAATGAAAGA
AATCTGAATCCATGTCATTCATAACCCCTTGATCTGTAGTGTCATGGGTGCTGCCGCAGGCAGGGAGTGAGCTGG
GGGTGCCTGCAGCCTTCCACTCCTGCCCCGCCTCACCCCACATGCTCCCTGTTTCTCATGCTTTCTCTAACTTCC
TCACCCCTTAACCAAAAAGGTGTGTTTTCTTTTGTGCATATAGCCATTCTTAAATATCAGTGATGTAAACCTCAC
TTTATTAAAAAATTATCCAGCAAAAAAAAAAAAAAAAAAAAAAAAA
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4459/6881
FIGURE 4113

MFARGLKRKCVGHEEDVEGALAGLKTVSSYSLQRQSLLDMSLVKLQLCHMLVEPNLCRSVLIANTVRQIQEEMTQ
DGTWRTVAPQAAERAPLDRLVSTEILCRAAWGQEGAHPAPGLGDGHTQGPVSDLCPVTSAQAPRHLQSSAWEMDG
PRENRGSFHKSLDQIFETLETKNPSCMEELFSDVDSPYYDLDTVLTGMMGGARPGPCEGLEGLAPATPGPSSSCK
SDLGELDHVVEILVET

4460/6881
FIGURE 4114

TCTCCAACAAAGGCCTCCCAGCCCCCATCGAGAAATGACCAAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGG
CTTCTACCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACACCTCC
CATGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGAA
CGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGG
TAAATGAGTGCCACGGCCGGCAAGCCCCCGCTCCCCAGGCTCTCGGGGTCGCGTGAGGATGCTTGGCACGTACCC
CGTGTACATACTTCCCAGGCACCCAGCATGGAAATAAAGCACCCAGCGCTGCCCTGGGCCCCTGC

4461/6881
FIGURE 4115

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GGACTCCCCCTCGCCCTCTGACACAGAAACCACCAGAAGAAAAGGGAACTTCAGGAACTTCCACCAAGGGCCCAT
CCGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGCCGCCCTGGGCTGCCTGGTCAAGGACT
ACTTCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTCC
TACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACGAAGACCTACA
CCTGCAACGTAGATCACAAGCCCAGCAACACCAAGGTGGACAAGAGAGTTGAGTCCAAATATGGTCCCCCATGCC
CATCATGCCCAGCACCTGAGTTCCTGGGGGGACCATCAGTCTTCCTGTTCCCCCCAAAACCCAAGGACACTCTCA
TGATCTCCCGGACCCCTGAGGTCACGTGCGTGGTGGTGGACGTGAGCCAGGAAGACCCCGAGGTCCAGTTCAACT
GGTACGTGGATGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTTCAACAGCACGTACCGTG
TGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAACGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAG
GCCTCCCGTCCTCCATCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAGCCACAGGTGTACACCCTGC
CCCCATCCCAGGAGGAGATGACCAAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTACCCCAGCGACA
TCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTGCTGGACTCCGACG
GCTCCTTCTTCCTCTACAGCAGGCTAACCGTGGACAAGAGCAGGTGGCAGGAGGGGAATGTCTTCTCATGCTCCG
TGATGCATGAGGCTCTGCACAACCACTACACACAGAAGAGCCTCTCCCTGTCTCTGGGTAAATGAGTGCCAGGGC
CGGCAAGCCCCCGCTCCCCGGGCTCTCGGGGTCGCGCGAGGATGCTTGGCACGTACCCCGTCTACATACTTCCCA
GGCACCCAGCATGGAAATAAAGCACCCACCACTGCCCTGGG
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4462/6881
FIGURE 4116

CACCCCTCCTCTGGAGAAGCCCCTAGATCACAGCTCCTCACCATGGACTGGACCTGAAGGATCCTCTTCTTGATG
GCAGCAGCAACAGGTGCCCACTCCCTGCAGCTGGTGCAGTCTGGGCCTGAGGTGAAGAAGCCTGGGGCCTCAGTG
AAGGTCTCCTATAAGTCTTCTGGTTACACCTTCACCATCTATGGTATGAATTGGGTATGATAGACCCCTGGACAG
GGCTTTGAGTGGATGTGATGGATCATCACCTACACTGGGAACCCAACGTATACCCACGGCTTCACAGGATGGTTT
GTCTTCTCCATGGACACGTCTGTCAGCACGGCGTGTCTTCAGATCAGCAGCCTAAAGGCTGAGGACACGGCCGAG
TATTACTGTGCGAAGTACACAGTGTGGAAACCCACATCCCGAGAGTTTCAGAAAGCCTGAGGAAGGAGGCAGCTG
TGCTGAGCTGAGGCAGTGAGCTCTGTCACAGGCCACATGGACCTAAATCCTTGATGGAGATTACAGGACTACGTA
AATTGGACTGATCGTTTTTATGCTGTTAAATTAATAGAAGGCCAGCCCACTTGTTCAGCTCCTAAGAAGAGAGCC
CAGGTTTATCCAGATTATACAACACAACCAGCTTCT<u>GATG</u>ACTCTCCTGTTACAACATCCATGGAGATATTTTGT
GTATTATATAATTCACCAAACTAATGTGAAATGCCCAAGTTGCAATACTGCACACCCTAGGGTATGTTCTTGCAA
TTCAGCGGAGGAGAAATTCTTTCAGAGACAGATGGATCTGAATTGGGGTCCTGTCCCAGGTGCAGCTACAGCAGT
GGGGCGCAGGACTGTTGAAGCCTTCGGAGACCCTGTCCCTCACCTGCGCTGTCTATGGTGGGTCCTTCAGTGGTT
ACTACTGGAGCTGGATCCGCCAGCCCCCAGGGAAGGGGCTGGAGTGGATTGGGGAAATCAATCA<u>TAG</u>TGGAAGCA
CCAACTACAACCCGTCCCTCAAGAGTCGAGTCACCATATCAGTAGACACGTCCAAGAACCAGTTCTCCCTGAAGC
TGAGCTCTGTGACCGCCGCGGACACGGCTGTGTATTACTGTGCGAGAG

4463/6881
FIGURE 4117

MTLLLQHPWRYFVYYIIHQTNVKCPSCNTAHPRVCSCNSAEEKFFQRQMDLNWGPVPGAATAVGRRTVEAFGDPV
PHLRCLWWVLQWLLLELDPPAPREGAGVDWGNQS

4464/6881
FIGURE 4118

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GCTCACATGGGAAGTGCTTTCTGAGAGTCATGGACCTCCTGCACAAGAACATGAAACACCTGTGGTTCTTCCTCC
TCCTGGTGGCAGCTCCCAGATGGGTCCTGTCCCAGGTGCAGCTACAGCAGTGGGGCGCAGGACTGTTGAAGCCTT
CGGAGACCCTGTCCCTCACCTGCGCTGTCTATGGTGGGTCCTTCAGTGGTTACTACTGGAGCTGGATCCGCCAGC
CCCCAGGGAAGGGGCTGGAGTGGATTGGGGAAATCAATCATAGTGGAAGCACCAACTACAACCCGTCCCTCAAGA
GTCGAGTCACCATATCAGTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGACCGCCGCGGACA
CGGCTGTGTATTACTGTGCGAGAGGCACAGTGAGGGGAGAAGAGGAAGAGACACCAGAGACCTCTCACTTTTCAC
GTGCACACAGAGAAGAGGCCATGTGGAGACGTAGTGCACTAGAAGGTGGCCCTGTGCAAGCCAGGAAGAAGCCAT
ACTAAGAACCAATTTTGCCAGCTCCTTGATCTTCGACATTCAGACTGTAGAATTGTAAGAAAATCAATATTTGTT
GTTTAAGCCACCCAATCCTGTTGTCTTCTTACGAAGACCCAAACTGACTAATACCACCTAACTCTGTTAGCTCTG
TCTCCTGGAGGGAGAAGCAGCCCCCTGAGGCTGGGCACTGCATCTCTCAGATTTCCACGTGAAGTAGGCAAAAAT
AGTAGTTCTCATATAAAAATGTGTCATGGCTCTGTTGGCCATTTTTGAGCATGGTCTCTGAAACCAGCCCTGGTG
TGTGTGTGTAACAAATGTCCCTTATCTTTTATTTGGACATAACAAATAGACGATAGGTACCAGCTG
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4465/6881
FIGURE 4119

CTCTTTCCAGCCAGCGCCGAGCGATGGGCACCTCTCGGGACAACTGGCACAAGGGCCGCAAAGCTGGGGGCAAGA
GAAGGCCCTGCCACAAGAAGCGGAAGTATGAGTTGGGGCGCCCAGCTGCCAACAGCAAGACTGACCCGTGCCGCA
TCCACACAGTCCGTGTGCGAGGAGGTAACAAGAAATACTGTGCCCCGAGGCTGGACGTGGGGAATTTCTCCTGGG
GCTCAGAATGCTGCGCTGGTGAAACAAGGGTCATCGATGTTGTCTACAATGCATCCAATAACGAGCTGGTTCGTA
CCAAGACCGTGGTGAAGAATTGCATCGTGCCCATCGACAGCACGCCCTACCGACAGTGGTACGAGTCCCACTGTG
CACTGCCCCTGGGCCGCAAGAAGGGAGCCAAGCTGACTCCTGAGGAAGAAGAGATTTTAAACAAAAAACGATCTA
AAAAAATTCAGAAGAAATATGATGAAAGGAAGAAGAATGCCAAAATGAGCAGTCTCCTGGGGGAGCAGTTCCAGC
AGGGCAAGCTTCTTGCGTGCATGGCTTCAAGGCCGGGACAGTGTGGCCGAGCAGATGGCTATGTGCTAGAGGGCA
AAGAGTTGGAGTTCTATCTTAGGAAAATCAAGGCCCAGAAAGGCAAATAAATCCTTGTTTTGTCTTCACCCATGT
AATAAAGGTGTTTATTGTTTTGTTCCCA

4466/6881
FIGURE 4120

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CTTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCTGGGGGCACAGCGGCCCTGG
GCTGCCTGGTCAAGGACTACTTCCCAGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCGTGC
ACACCTTCCCGGCTGTCCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCT
TGGGCACCCAGACCTACACCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAGAGTTGAGCTCA
AAACCCCACTTGGTGACACAACTCACACATGCCCACGGTGCCCAGAGCCCAAATCTTGTGACACACCTCCCCCGT
GCCCACGGTGCCCAGAGCCCAAATCTTGTGACACACCTCCCCCATGCCCACGGTGCCCAGCACCTGAACTCCTGG
GAGGACCGTCAGTCTTCCTCTTCCCCCCAAAACCCAAGGATACCCTTATGATTTCCCGGACCCCTGAGGTCACGT
GCGTGGTGGTGGACGTGAGCCACGAAGACCCCGAGGTCCAGTTCAAGTGGTACGTGGACGGCGTGGAGGTGCATA
ATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTTCCGTGTGGTCAGCGTCCTCACCGTCCTGCACC
AGGACTGGCTGAACGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCA
TCTCCAAAACCAAAGGACAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGAGGAGATGACCAAGA
ACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTACCCCAGCGACATCGCCGTGGAGTGGGAGAGCAGCGGGC
AGCCGGAGAACAACTACAACACCACGCCTCCCATGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCA
CCGTGGACAAGAGCAGGTGGCAGCAGGGGAACATCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCGCT
TCACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGAGTGCGACGGCCGGCAAGCCCCCGCTCCCCGGGCTCTC
GGGGTCGCGCGAGGATGCTTGGCACGTACCCCGTGTACATACTTCCCGGGCACCCAGCATGGAAATAAAGCACCC
AGCGCTGCCCTGGG
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4467/6881
FIGURE 4121

GACAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGAGGAGATGACCAAGAACCAGGTCAGCCTGA
CCTGCCTGGTCAAAGGCTTCTACCCCAGCGACATCGCCGTGGAGTGGGAGAGCAGCGGGCAGCCGGAGAACAACT
ACAACACCACGCCTCCCATGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAAGAGCA
GGTGGCAGCAGGGGAACATCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCGCTTCACGCAGAAGAGCC
TCTCCCTGTCTCCGGAGCTGCAACTGGAGGAGAGCTGTGCGGAGGCGCAGGACGGGGAGCTGGACGGGCTGTGGA
CGACCATCACCATCTTCATCACACTCTTCCTGTTAAGCGTGTGCTACAGTGCCACCGTCACCTTCTTCAAGGTGA
AGTGGATCTTCTCCTCGGTGGTGGACCTGAAGCAGACCATCATCCCCGACTATAGGAACATGATTGGGCAGGGGG
CCTAGGGCCACCCTCTGCGGGGTGTCCAGGGCCACCCAGATCCCACACACGAGCCGTGGGCCATGCTCAGCCACC
ACCCAGGCCACAACTGCCCCCGACCTCACCGCCCTCAACCCCATGGCTCTCTGTCTTTGCAGTCGCCCTCTGAGC
CCTGACACGCCCCCCTTCCAGACCCTGTGCATAGCAGGTCTACCCCAGACCTCCGCTGCTTGGTGCATGCAGGGA
GCTGGGGACCAGGTGTCCCCTCAGCAGGATGTCCCTGCCCTCCAGACCGCCAGATGCTCACACAAAAGGAGGCAG
TGACCAGCATCCGAGGCCCCCACCCAGGCAGGAGCTGGCCCTGGAGCCAACCCCGTCCACGCCAGCCTCCTGAAC
ACAGGCGTGGTTTCCAGATGCCCGCAGCCAGCCAGCCTCCATTCCGGGCACTCCCGTGAACTCCTGACATGAGGA
ATGAGGTTGTTCTGATTTCAAGCAAAGAACGCTGCTCTCTGGCTCCTGGGAACAGTCTCGGTGCCAGCACCACCC
CTTGGCTGCCTGCCTACACTGCTGGATTCTCGGGTGGAACTGGACCCGCAGGGACAGCCAGCCCCAGAGTCCGCA
CTGGGGAGAGAAGGGGCCAG

4468/6881
FIGURE 4122

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AAGAAGAGGCGAGAAAGACCCCCCGACAGACCAAAGCCCGTGTGCCGCTGCATCCTGCATCCAGCACCTACCTCC
CGCCACTGTCGCCACTGCCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAA
GGATGAACCACAGAGAAGATCCGCAAGGTTGTCTGCTAAACCTCCTCCTCCAAAGCCAGACAGCCCAAGCCTAGA
AAGGCCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCCCAGGAGGAGGGATTC
CCTGACTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATTTGTTTTTATGTCCT
CTTCTCCCTTTCCATCTTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGACCTGACCCCTAGTC
ATTGGTTACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAAGAGTAGTG
GTTCCATTTCTAGATTGTAGATCTTCAGATAAATTCTGCCATTTTCATTTCACTTCCTGAAAGTCAGGGTCGGCT
TCTAAAAATTTGTTAAACAATATGCTAAATGTGAAATGTCACCCCTCACTCTAAACTTTCCCCGTTCAGAGCATC
AGATGAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTT
GTTGTATACTGTTAACGATTATCTGCCCATGTCCTGCCT
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4469/6881
FIGURE 4123

CTCTTTCCAGCCAGTGCCGAGCGATGGACATCTCTTGGGACAACTGGCACAAGTGCCACAAAACCAGGGACAAGA
GAAAGCCCTACCACAAGAAGCGGAAGTATGAGTTGGGGCACCCAGCTGCCAACACCAAGACTGGCCCCCGCCGCA
TCCACACAGTCCGTGTGTGGGGAGGTAACAAGAAATACTGTGCCCTGAGGCTGGACGTGAGGAATTTCTCCTGGG
GCTCAGAATGTTGTGCTCATAAAACAACGATCATCGATGTTGTCTACAATGCATCTAATAACGAGCTGGTTCGTC
CCAAGACCCTGGTGAAGAATTGCATTGTGCTCATTGACAGCACACTGTACCGACAGTGGTACGAGTCCCACTATG
CGCCGCCCCTGGGCTGCAAGAAGGGAGCCAAGCTGACTCCTGAGGAAGAAGAGATTTTGAACAAAAAGCGATCTA
AAAAAATTCAGAAGAAATATCATGAAAGGAAAAAGAATGCCAAAATCAGCAGTCTCCTGGGGGAGCAGTTCCAGC
AGGGCAAGCTTCTTGCATGCATTGCTTCAAGGCCAGGACAGTGTGGCTGAGCAGATGGGTATGTGCTAGAGGGCA
AAGAGTTGGAGTTCTATCTTAGGAAAATCAAGGCCCGGAAGGGCAAATAAATCCTTGTTTTGTCTTCACCCATGT
AATAAAGGTGTTTATTGTTTTGTTCC

4470/6881
FIGURE 4124

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ATGGATGAGGGAACCAGCTTCAGAACAGTTTTAGATAAAGCTGTGCAAGCAGATGGACACGTGAAAGAATGTTAC
CCGTCTCATCGTGACCCCATCGTGCTTTTGTGTAAGCCAGAGCCTGAGCTGAATGCTGCCATCCCTTCTGCTAAT
CCAGCAAAGACCATGCAGGGCAGTGAGGTTGTAAATGTCTTAAAATCCTTATTGTCAAATCTTGATGAAGTAAAG
AAGGAAAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTTGACATGACAAGCAAGTTTTTGACAGCCCTG
GCTCAAGATGGTGTGATAAATGAAGAAGCTCTTTCTGTTACTGAACTAGATCGAGTCTATGGAGGTCTTACAACT
AAAGTCCAAGAATCTCTAAAGACACAGGAGGGACTTCTTAAAAATATTCAGGTCTCACATCAGGAATTTTCGAAA
ATGAAGCAATCTAATAATGAAGCTAACTTAAGAAAAGAAGTTTTGAAGAATTTAGCTACTGCATATGACAACTTT
GTTGAACTTGTAGCTAATTCGAAGGAAGACACAAAGTTTTACAATGAGTTGACTGAAATCCTGGTCAGGTTCCAG
AACAAATGCAGCGATATAGTTTTGGCATGGAAGACAGAAAGAGATGAACTCTTAAAGAGTAGGATGGATTATATT
ATTTGTCGAAATGCCTTTGCATCTAACAAGAACCTCTTGGGTTCATCCTTTGGAGAACCTGATATCATGGAAAAT
GGACTGAACTAG
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FIGURE 4125A

CCCAGGATGGCGGCCCAGGTGACTCTGGAGGACGCGCTGTCCAACGTGGACCTCCTGGAGGAGCTGCCCCTGCCC
GACCAGCAGCCCTGCATCGAGCCCCCGCCATCCTCGCTGCTCTACCAGCCAAATTTCAACACTAACTTTGAAGAC
AGAAATGCATTTGTTACTGGCATCGCAAGATACATTGAACAAGCCACCGTCCACTCTAGCATGAACGAGATGCTG
GAGGAGGGCCAAGAATATGCTGTCATGCTGTACACCTGGAGGAGCTGCTCCCGGGCCATCCCACAGGTGAAATGT
AACGAGCAGCCTAACAGAGTGGAAATCTACGAGAAAACCGTGGAGGTTCTGGAGCCTGAGGTCACAAAACTGATG
AATTTCATGTACTTCCAGAGAAATGCCATTGAGCGTTTCTGCGGGGAAGTGAGGCGCCTGTGCCATGCCGAGAGG
AGGAAGGACTTCGTGTCAGAAGCCTACCTGATCACACTGGGCAAATTCATCAACATGTTCGCTGTGCTGGACGAG
CTGAAGAACATGAAGTGCAGTGTGAAGAACGACCACTCAGCGTACAAGAGGGCCGCTCAGTTTTTACGTAAAATG
GCAGATCCACAGTCCATCCAGGAATCGCAGAATCTGTCCATGTTCCTGGCCAATCATAACAAGATCACACAGTCT
CTGCAGCAGCAGCTCGAAGTGATTTCTGGCTACGAAGAGCTCCTGGCAGATATTGTGAATCTGTGTGTGGATTAC
TACGAGAACAGGATGTATTTGACGCCCAGTGAGAAACACATGCTTCTCAAAGTCATGGGATTTGGTCTGTACCTG
ATGGATGGGAGTGTCAGTAACATCTATAAGTTGGATGCCAAGAAAAGAATAAACTTATCCAAAATCGACAAGTAC
TTCAAGCAACTCCAGGTGGTTCCGCTATTTGGGGACATGCAAATAGAACTGGCAAGATATATCAAGACCAGCGCC
CACTACGAGGAAAATAAATCTCGATGGACGTGCACATCCTCCGGCAGCAGCCCTCAGTACAACATCTGCGAGCAG
ATGATCCAGATCCGCGAGGACCACATGCGCTTCATTTCGGAGCTGGCGCGCTACAGCAACAGCGAGGTGGTCACG
GGCTCGGGCCGCCAGGAGGCCCAGAAGACGGACGCGGAGTACCGCAAGCTCTTCGACCTGGCGCTGCAGGGCCTG
CAGCTGTTGTCGCAGTGGAGCGCGCACGTGATGGAAGTGTATTCCTGGAAGCTTGTGCACCCCACCGACAAGTAC
TCCAACAAGGACTGCCCCGACAGCGCTGAAGAGTACGAGCGTGCCACGCGCTACAACTACACCAGCGAGGAGAAG
TTTGCCCTAGTGGAGGTGATCGCCATGATCAAAGGCCTGCAGGTGCTGATGGGCAGGATGGAGAGCGTGTTCAAC
CACGCCATCCGGCACACCGTCTATGCCGCACTGCAGGACTTCTCCCAGGTGACCCTTAGGGAGCCGCTGCGGCAG
GCCATCAAGAAGAAGAAGAACGTCATCCAGAGTGTCCTGCAGGCCATCAGGAAGACCGTGTGTGACTGGGAGACG
GGGCATGAGCCCTTCAATGACCCAGCCTTGCGGGGCGAGAAGGACCCCAAGAGCGGCTTCGACATAAAAGTACCA
CGCCGCGCCGTGGGACCCTCCAGCACTCAGCTTTACATGGTGAGAACCATGCTAGAGTCCCTCATTGCAGACAAA
AGTGGTTCCAAGAAAACCTTGAGAAGTAGCCTTGAGGGGCCCACCATATTGGACATAGAAAAATTTCATCGAGAG
TCATTCTTCTACACTCACTTGATAAATTTCAGTGAAACGCTGCAGCAGTGCTGTGACCTTTCGCAGCTGTGGTTC
CGAGAGTTCTTCCTGGAGCTGACCATGGGCAGGAGGATCCAGTTCCCCATTGAGATGTCGATGCCCTGGATCCTG
ACGGACCACATCCTGGAGACCAAGGAGGCATCGATGATGGAGTACGTGCTCTACTCCCTGGACCTGTACAATGAC
AGCGCCCACTACGCGCTCACCAGGTTCAACAAGCAGTTCCTGTACGACGAAATTGAGGCCGAGGTGAATCTATGT
TTTGACCAATTTGTTTACAAGCTAGCAGACCAGATATTTGCCTATTATAAGGTTATGGCAGGAAGTTTGCTTCTT
GATAAACGGTTACGATCAGAATGCAAGAATCAGGGAGCCACGATCCACCTCCCGCCGTCTAACCGCTACGAGACG
CTGCTGAAGCAGAGGCATGTGCAGCTCCTCGGCAGATCAATAGACCTCAATCGTCTGATCACCCAGCGCGTCTCA
GCAGCCATGTATAAGTCCCTAGAACTGGCGATTGGACGATTTGAAAGTGAAGATTTGACCTCCATAGTTGAGCTG
GATGGCCTGTTGGAAATCAACCGCATGACCCACAAGCTGCTGAGCCGGTACCTGACGCTGGACGGCTTCGACGCC
ATGTTCCGGGAGGCCAACCACAACGTGTCAGCGCCCTACGGGAGGATCACCCTGCACGTCTTCTGGGAGCTCAAC
TATGACTTCCTGCCCAACTACTGCTACAACGGCTCTACCAACCGGTTTGTTCGGACAGTGTTACCATTTTCTCAG
GAATTTCAAAGAGATAAGCAGCCTAATGCACAGCCTCAGTATCTGCATGGATCCAAGGCTTTGAACTTGGCCTAC
TCCAGCATTTACGGCAGCTACCGGAACTTCGTGGGACCTCCACACTTTCAAGTCATCTGCCGGCTTCTCGGCTAC
CAGGGTATCGCCGTGGTCATGGAGGAGCTGCTGAAGGTCGTCAAGAGCCTGCTGCAAGGCACAATCCTGCAGTAC
GTGAAGACGCTGATGGAGGTGATGCCCAAGATCTGCCGCCTGCCCCGGCACGAGTACGGCTCTCCTGGTATCCTG
GAGTTCTTCCACCACCAGCTGAAGGACATCGTGGAGTACGCAGAGXCTGAAGACGGTGTGCTTCCAGAACCTGCG
GGAGGTGGGGAACGCCATCCTCTTCTGCCTGCTCATCGAGCAGAGCCTGTCTTTAGAAGAAGTGTGTGACCTGCT
GCACGCGGCTCCTTTCCAGAACATCTTGCCGCGAGTCCATGTGAAAGAGGGGGAGAGACTTGATGCCAAAATGAA
AAGACTAGAATCAAAGTACGCCCCGCTGCATCTTGTCCCACTGATTGAAAGACTGGGGACCCCTCAGCAAATTGC
CATCGCAAGAGAGGGGGACCTGCTGACAAAGGAGCGCCTCTGCTGCGGCCTGTCCATGTTTGAGGTCATCCTGAC
ACGGATCCGGAGCTTTCTGGATGACCCCATCTGGCGCGGGCCTCTGCCCAGCAATGGGGTCATGCATGTGGACGA
GTGTGTGGAGTTTCACAGACTGTGGAGTGCCATGCAGTTTGTCTACTGCATTCCCGTGGGGACACACGAGTTCAC
AGTCGAGCAGTGCTTTGGTGATGGGCTACACTGGGCTGGCTGTATGATCATCGTACTTCTTGGGCAGCAGCGGCG
TTTTGCTGTGCTGGATTTCTGCTACCATCTACTTAAAGTCCAGAAACATGATGGCAAAGATGAGATTATTAAAAA

4472/6881
FIGURE 4125B

TGTGCCTTTGAAGAAGATGGTGGAGAGAATTCGCAAGTTCCAGATTCTCAATGATGAGATCATCACCATCCTGGA
TAAGTACCTGAAGTCAGGCGACGGGGAGGGCACGCCAGTGGAGCATGTGCGCTGCTTCCAGCCGCCCATCCACCA
GTCCCTCGCCAGCAGCTGAGGGCACGCGCTGCACTCCGTAACTCAACATGGCATGCCTTTCTCTCCGTAAACTAT
TTAGTGAGATTTTTAGGGACTATTTTTCAGTATCTCTGTACCTGTTAAAGGGGGTGCTTTTCGATCTAAAAACTT
AATTTTATAAAATTGACTTATTTTTCTAGACTAAAATTGTATATGCTTTTGGTAATTAGGAACTCTTGAGAATAT
TGGCTGCTGATTGTTGCCATCACGTTCCTACAAAATTGTTTTTCTATGGGATGTTCTGGCAGCTGTGTCATAAAA
TGCTGCTGGGTTCATTCATTCATTCCATAAGAAACTTAATACCAGCAAATGCATTAAATCCCTTGCCAGTTACCA
TTAACTGTAACTATTTAGCTTTTGTTTAGGGATCTTTCTGATGGTCTTTTATGAGCAATCTTAGTTCTAAGTCAT
TGTTCCCATCCCTTTTTTGTGTGTTTCAGAAAATAGTGAACTTGATTCCCCTGCTTCCACTAAATCCAGTTGTGA
CAAAATCTAACGTGACATCAGATCGAAAGGTTATAGAAATAAAACTAATGAGATCT

4473/6881
FIGURE 4126

MQIELARYIKTSAHYEENKSRWTCTSSGSSPQYNICEQMIQIREDHMRFISELARYSNSEVVTGSGRQEAQKTDA
EYRKLFDLALQGLQLLSQWSAHVMEVYSWKLVHPTDKYSNKDCPDSAEEYERATRYNYTSEEKFALVEVIAMIKG
LQVLMGRMESVFNHAIRHTVYAALQDFSQVTLREPLRQAIKKKKNVIQSVLQAIRKTVCDWETGHEPFNDPALRG
EKDPKSGFDIKVPRRAVGPSSTQLYMVRTMLESLIADKSGSKKTLRSSLEGPTILDIEKFHRESFFYTHLINFSE
TLQQCCDLSQLWFREFFLELTMGRRIQFPIEMSMPWILTDHILETKEASMMEYVLYSLDLYNDSAHYALTRFNKQ
FLYDEIEAEVNLCFDQFVYKLADQIFAYYKVMAGSLLLDKRLRSECKNQGATIHLPPSNRYETLLKQRHVQLLGR
SIDLNRLITQRVSAAMYKSLELAIGRFESEDLTSIVELDGLLEINRMTHKLLSRYLTLDGFDAMFREANHNVSAP
YGRITLHVFWELNYDFLPNYCYNGSTNRFVRTVLPFSQEFQRDKQPNAQPQYLHGSKALNLAYSSIYGSYRNFVG
PPHFQVICRLLGYQGIAVVMEELLKVVKSLLQGTILQYVKTLMEVMPKICRLPRHEYGSPGILEFFHHQLKDIVE
YAELKTVCFQNLREVGNAILFCLLIEQSLSLEEVCDLLHAAPFQNILPRVHVKEGERLDAKMKRLESKYAPLHLV
PLIERLGTPQQIAIAREGDLLTKERLCCGLSMFEVILTRIRSFLDDPIWRGPLPSNGVMHVDECVEFHRLWSAMQ
FVYCIPVGTHEFTVEQCFGDGLHWAGCMIIVLLGQQRRFAVLDFCYHLLKVQKHDGKDEIIKNVPLKKMVERIRK
FQILNDEIITILDKYLKSGDGEGTPVEHVRCFQPPIHQSLASS

4474/6881
FIGURE 4127

GATCTGTTTGAGGAGATGGTGCCTGTGTCAGTGTGGCAGTCTTTGGCTGCCTGTGATCAGAGGAAAGCCGATTTG
TTAACAGATCAATTGCTCAGATGAGAGAAGCCACCACTTTGGCAAATGGAGTGCTAGCTTCCCTTAATCTTCCAG
CAGCAATTGAAGATGTGTCTGGAGACACTGTACCTCAGTCTATATTGACTAAATCAAGATCTGTGATTGAACAGG
GAGGCATCCAGACTGTTGATCAGTTGACTAAAGAACTGCCTGAATTACTGCAATGAAATAGAGAAATCCTAGATG
AGTCATTAAGGTTTTTGGATGAAGAAGAAGCAACCGATAATGATTTATGAGCAAAATTTAAGGAACGCTGGCAAA
GGACATCATCCAATGAACTGTATAAGCCTTTAAAAGCAGAGGGAACCAGCTTCAGAACAGTTTTAGATAAAGCTG
TGCAAGCAGATGGACACGTGAAAGAATGTTACCCGTCTCATCGTGACCCCATCGTGCTTTTGTGTAAGCCAGAGC
CTGAGCTGAATGCTGCCATCCCTTCTGCTAATCCAGCAAAGACC__ATG__CAGGGCAGTGAGGTTGTAAATGTCTTAA
AATCCTTATTGTCAAATCTTGATGAAGTAAAGAAGGAAAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATT
TTGACATGACAAGCAAGTTTTTGACAGCCCTGGCTCAAGATGGCATGATAAATGAAGAAGCTCTTTCTGTTACTG
AACTAGATCGAGTCTATGGAGGTCTTACAACTAAAGTCCAAGAATCTCTAAAGAAACAGGAGGGACTTCTTAAAA
ATATTCAGGTCTCACATCAGGAATTTTCGAAAATGAAGCAATCTAATAATGAAGCTAACTTAAGAGAAGAAGTTT
TGAAGAATTTAGCTACTGCATGTGACAACTTTGTTGAACTTGTAGCTAATTCGAAGGAAGGCACAAAGTTTTACA
ATGAGTTGACTGAAATCCTGGTCAGGTTCCAGAACAAATGCAGCGATATAGTTTTGGCATGGAAGACAGAAAGAG
ATGAACTCTTAAAGGCC__TGA__GACCTGGGAGGAAGCTGGAGAAAAGATGCCCTCTGAATCTTTGTGTTTGGCTGCC
CAGGCTCGCCTTGACACC

4475/6881
FIGURE 4128

MQGSEVVNVLKSLLSNLDEVKKEREGLENDLKSVNFDMTSKFLTALAQDGMINEEALSVTELDRVYGGLTTKVQE
SLKKQEGLLKNIQVSHQEFSKMKQSNNEANLREEVLKNLATACDNFVELVANSKEGTKFYNELTEILVRFQNKCS
DIVLAWKTERDELLKA

4476/6881
FIGURE 4129

CCCCCAGTGTGAACGATCCCGGGAACATGTCCTTTGTGAAGGAGACGGTGGACAAGCTGTTGAAAGGCTACGACA
TTCGCCTAAGACCCGACTTCGGGGGTCCCCCGGTCTGCGTGGGGATGAACATCGACATCGCCAGCATCGACATGG
TTTCCGAAGTCAACATGGATTATACCTTAACCATGTATTTTCAACAATATTGGAGAGATAAAAGGCTCGCCTATT
CTGGGATCCCTCTCAACCTCACGCTTGACAATCGAGTGGCTGACCAGCTATGGGTGCCCGACACATATTTCTTAA
ATGACAAAAAGTCATTTGTGCATGGAGTGACAGTGAAAAACCGCATGATCCGTCTTCACCCTGATGGGACAGTGC
TGTATGGGCTCAGAATCACCACGACAGCAGCATGCATGATGGACCTCAGGAGATACCCCCTGGACGAGCAGAACT
GCACTCTGGAAATTGAAAGCTATGGCTACACCACGGATGACATTGAGTTTTACTGGCGAGGCGGGGACAAGGCTG
TTACCGGAGTGGAAAGGATTGAGCTCCCGCAGTTCTCCATCGTGGAGCACCGTCTGGTCTCGAGGAATGTTGTCT
TCGCCACAGGTGCCTATCCTCGACTGTCACTGAGCTTTCGGTTGAAGAGGAACATTGGATACTTCATTCTTCAGA
CTTATATGCCCTCTATACTGATAACGATTCTGTCGTGGGTGTCCTTCTGGATCAATTATGATGCATCTGCTGCTA
GAGTTGCCCTCGGGATCACAACTGTGCTGACAATGACAACCATCAACACCCACCTTCGGGAGACCTTGCCCAAAA
TCCCCTATGTCAAAGCCATTGACATGTACCTTATGGGCTGCTTCGTCTTTGTGTTCCTGGCCCTTCTGGAGTATG
CCTTTGTCAACTACATTTTCTTTGGAAGAGGCCCTCAAAGGCAGAAGAAGCTTGCAGAAAAGACAGCCAAGGCAA
AGAATGACCGTTCAAAGAGCGAAAGCAACCGGGTGGATGCTCATGGAAATATTCTGTTGACATCGCTGGAAGTTC
ACAATGAAATGAATGAGGTCTCAGGCGGCATTGGCGATACCAGGAATTCAGCAATATCCTTTGACAACTCAGGAA
TCCAGTACAGGAAACAGAGCATGCCTCGAGAAGGGCATGGGCGATTCCTGGGGGACAGAAGCCTCCCGCACAAGA
AGACCCATCTACGGAGGAGGTCTTCACAGCTCAAAATTAAAATACCTGATCTAACCGATGTGAATGCCATAGACA
GATGGTCCAGGATCGTGTTTCCATTCACTTTTTCTCTTTTCAACTTAGTTTACTGGCTGTACTATGTTAACTGAG
TGACTGTACTTGATTTTTCAAAGACTTCATTTAACACTGAGTGAAATATTACTCTGCCTGTCAAGTTTTTATACC
TGTACACACACAGACACACAAGCAGACACACACATATATACATACGCAATTGTATATATATGTGAACTTTCTCAG
CATATATAT

4477/6881
FIGURE 4130

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GAGCAGTGTGAAGAAGAGGCGAGAACGACCCCCGGACCGACCAAAGCCCGCGTCGCCACCGCCACCATGCCCAAG
AGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGGACGAACCACAGAGAAGATCCGCGAGGTTG
TCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAAAAAGGCCCCTGCAAAGAAGGGAGAGAAGGTACCC
AAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGGAGGGGAATAACCCTGCAGAAAATGGAGATGCCAAAACAGAC
CAGGCACAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTGTGCATTTTTGATAACTGTGTATTTCTGGTG
ACTGTACAGTTTGAAATACTTTTATCAAGTTTTATAAAAATGCAGAATTTTGTTTTACTTTTTTTTTTTTTTTTT
TAAGCTATGTTGTTCGCACACAGAACACTTCATTGTTGTTTTTGGGGGAAGGGGCATATGTCACTAATAGAATGT
CTCCAAAACTGGATTGATGTGGAGAAAACACCTTTCCCTTCCAGTTTTGAGAGACTTCCTCTTGGCTCCCAGGAG
GAGGGATTCCTTGACTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGCTATGGAAAAACTCCCTTAAGC
CCAGACATCTGTTGAGACCTGACCCCTAGTCATTGGTTACCAGTGTGTCAGGCAATCTGGACTTT
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4478/6881
FIGURE 4131

MPKRKAEGDTKRDKAKVKDEPQRRSVRLSAKPAPPKPEPKPKKAPAKKGEKVPKGKKGKADAGEEGNNPAENGVA
KTDQAQKAESPGDAK

4479/6881
FIGURE 4132

GGCGAGAACGACCCCCGGACCGACCAAAGCCCGCGTGCCGCTGCATCCCACGTCCAGCACCTACGTCCTGTCGCC
ACCGCCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGGACGAACCACAG
AGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAAAAAGGCCCCTGCAAAG
AAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCCCAGGAGGAGGGATTCCTTGACTTTGACACA
CATGGCCACCTTGGCACAAAAGCCTTGTGCTATGGAAAAACAAATTTGTTTTTATGTCCTCTTCTCCCTTTCCAC
GTTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGAGACCTGACCCCTAGTCATTGGTTACCAGTGT
GTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAAGAGCAGTGGTTCCATTTCTAGAT
TGTGGATCTTCAGATAAATTCTGCCATTTTCGTTTCACTTCCTGAAAGTCAGGGTTGGCTTGTGAAAAGTTGTTA
AACAACATGCTAAATGTGAAATGTCAACCCTCACTCTCAACTTTCCCTGTTCAGAGCATCAGATGAAGACTTCAT
TGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACTGTTAA
CGATTGTCTGCCCATGTCCTGCCTGAAATACCA

FIGURE 4133

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TTACTACTGATGTGAACAGATTCTGACCTTTGGCTGCCTAGTTGTTTTTGATAAATTAACTCTTAGAATAATGAT
GAATGTCTTGGCCGTTCCTCAAAAACCTTTGGCTGTTTGCAGCAGATGATGGATGTCTAGAAAACACCCCTGACA
CTGCAGAGTTCAGTCGAGAGTTCCAGTTGCACCAGCATCTCTTTGATCCGGAACATGACTATCCAGGCTTGGGCA
AGTGGAACAAGAAACTCCTTTACGAGAAGATGAAGGGAGGAGAGAGACGAAAGCGGAGGAGTGTCAATCCATATC
TACAAGGACAGAGACTGGATAATGTTGTTGCAAAGAAGTCTGTCCCCCATTTTTCAGATGAGGATAAGGATCCAG
AGTAAAGAGAAGATGCTAGACGAAAACCCACATTACCTGTTAGGCCTCAGCATGGCTTATGTGCACGTGTAAATG
GAGTCCCTGTGAATGACAGCATGTTTCTTACATAGATAATTATGGATACAAAGCAGCTGTATGTAGATAGTGTAT
TGTCTTCACACCGATGATTCTGCTTTTTGCTAAATTAGAATAAGAGCTTTTTTGTTTCTTGGGTTTTTAAAATGT
GAATCTGCAATGATCATAAAAATTAAAATGTGAATGTCAACAATAAAAAGCAAGACTATGAAAGGCTCAGATTTC
TTGCAGTTTAAAATGGTGTCTGAGGTTGTACTATTTTGGCCAAGTCTGTAGAAAGCTGTCATTTGATTTTGATTA
TGTAGTTCATCCAGCCCTTGGGCATTGTTATACACCAGTAAAGAAGGCTGTACTCAAGAGGAGGAGCTGACACAT
TTCACTTGGCTGCGTCTTAATAAACATGAATGCAAGCATTGG
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FIGURE 4134A

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GCGGCCGCACTCAGCGCCACGCGTCGAAAGCGCAGGCCCCGAGGACCCGCCGCACTGACAGTATGAGCCGCACAG
CCTACACGGTGGGAGCCCTGCTTCTCCTCTTGGGGACCCTGCTGCCGGCTGCTGAAGGGAAAAAGAAAGGGTCCC
AAGGTGCCATCCCCCCGCCAGACAAGGCCCAGCACAATGACTCAGAGCAGACTCAGTCGCCCCAGCAGCCTGGCT
CCAGGAACCGGGGGCGGGGCCAAGGGCGGGGCACTGCCATGCCCGGGGAGGAGGTGCTGGAGTCCAGCCAAGAGG
CCCTGCATGTGACGGAGCGCAAATACCTGAAGCGAGACTGGTGCAAAACCCAGCCGCTTAAGCAGACCATCCACG
AGGAAGGCTGCAACAGTCGCACCATCATCAACCGCTTCTGTTACGGCCAGTGCAACTCTTTCTACATCCCCAGGC
ACATCCGGAAGGAGGAAGGTTCCTTTCAGTCCTGCTCCTTCTGCAAGCCCAAGAAATTCACTACCATGATGGTCA
CACTCAACTGCCCTGAACTACAGCCACCTACCAAGAAGAAGAGTCACACGTGTGAAGCAGTGTCGTTGCATAT
CCATCGATTTGGATTAAGCCAAATCCAGGTGCACCCAGCATGTCCTAGGAATGCAGCCCCAGGAAGTCCCAGACC
TAAAACAACCAGATTCTTACTTGGCTTAAACCTAGAGGCCAGAAGAACCCCCAGCTGCCTCCTGGCAGGAGCCTG
CTTGTGCGTAGTTCGTGTGCATGAGTGTGGATGGGTGCCTGTGGGTGTTTTAGACACCAGAGAAACACAGTCT
CTGCTAGAGAGCACTCCCTATTTGTAAACATATCTGCTTTAATGGGGATGTACCAGAAACCCACCTCACCCCGG
CTCACATCTAAAGGGGCGGGGCCGTGGTCTGGTTCTGACTTTGTGTTTTTGTGCCCTCCTGGGGACCAGAATCTC
CTTTCGGAATGAATGTTCATGGAAGAGGCTCCTCTGAGGGCAAGAGACCTGTTTTAGTGCTGCATTCGACATGGA
AAAGTCCTTTTAACCTGTGCTTGCATCCTCCTTTCCTCCTCCTCCTCACAATCCATCTCTTCTTAAGTTGATAGT
GACTATGTCAGTCTAATCTCTTGTTTGCCAAGGTTCCTAAATTAATTCACTTAACCATGATGCAAATGTTTTTCA
TTTTGTGAAGACCCTCCAGACTCTGGGAGAGGCTGGTGTGGGCAAGGACAAGCAGGATAGTGGAGTGAGAAAGGG
AGGGTGGAGGGTGAGGCCAAATCAGGTCCAGCAAAAGTCAGTAGGGACATTGCAGAAGCTTGAAAGGCCAATACC
AGAACACAGGCTGATGCTTCTGAGAAAGTCTTTTCCTAGTATTTAACAGAACCCAAGTGAACAGAGGAGAAATGA
GATTGCCAGAAAGTGATTAACTTTGGCCGTTGCAATCTGCTCAAACCTAACACCAAACTGAAAACATAAATACTG
ACCACTCCTATGTTCGGACCCAAGCAAGTTAGCTAAACCAAACCAACTCCTCTGCTTTGTCCCTCAGGTGGAAAA
GAGAGGTAGTTTAGAACTCTCTGCATAGGGGTGGGAATTAATCAAAAACCTCAGAGGCTGAAATTCCTAATACCT
TTCCTTTATCGTGGTTATAGTCAGCTCATTTCCATTCCACTATTTCCCATAATGCTTCTGAGAGCCACTAACTTG
ATTGATAAAGATCCTGCCTCTGCTGAGTGTACCTGACAGTAGTCTAAGATGAGAGAGTTTAGGGACTACTCTGTT
TTAGCAAGAGATATTTTGGGGGTCTTTTTGTTTTAACTATTGTCAGGAGATTGGGCTAAAGAGAAGACGACGAGA
GTAAGGAAATAAAGGGAATTGCCTCTGGCTAGAGAGTAGTTAGGTGTTAATACCTGGTAGAGATGTAAGGGATAT
GACCTCCCTTTCTTTATGTGCTCACTGAGGATCTGAGGGGACCCTGTTAGGAGAGCATAGCATCATGATGTATTA
GCTGTTCATCTGCTACTGGTTGGATGGACATAACTATTGTAACTATTCAGTATTTACTGGTAGGCACTGTCCTCT
GATTAAACTTGGCCTACTGGCAATGGCTACTTAGGATTGATCTAAGGGCCAAAGTGCAGGGTGGGTGAACTTTAT
TGTACTTTGGATTGGTTAACCTGTTTTCTTCAAGCCTGAGGTTTTATATACAAACTCCCTGAATACTCTTTTTG
CCTTGTATCTTCTCAGCCTCCTAGCCAAGTCCTATGTAATATGGAAAACAAACACTGCAGACTTGAGATTCAGTT
GCCGATCAAGGCTCTGGCATTCAGAGAACCCTTGCAACTCGAGAAGCTGTTTTTATTTCGTTTTTGTTTTGATCC
AGTGCTCTCCCATCTAACAACTAAACAGGAGCCATTTCAAGGCGGGAGATATTTTAAACACCCAAAATGTTGGGT
CTGATTTTCAAACTTTTAAACTCACTACTGATGATTCTCACGCTAGGCGAATTTGTCCAAACACATAGTGTGTGT
GTTTTGTATACACTGTATGACCCCACCCCAAATCTTTGTATTGTCCACATTCTCCAACAATAAAGCACAGAGTGG
ATTTAATTAAGCACACAAATGCTAAGGCAGAATTTTGAGGGTGGGAGAGAAGAAAAGGGAAAGAAGCTGAAAATG
TAAAACCACACCAGGGAGGAAAAATGACATTCAGAACCAGCAAACACTGAATTTCTCTTGTTGTTTTAACTCTGC
CACAAGAATGCAATTTCGTTAACGGAGATGACTTAAGTTGGCAGCAGTAATCTTCTTTTAGGAGCTTGTACCACA
GTCTTGCACATAAGTGCAGATTTGGCTCAAGTAAAGAGAATTTCCTCAACACTAACTTCACTGGGATAATCAGCA
GCGTAACTACCCTAAAAGCATATCACTAGCCAAAGAGGGAAATATCTGTTCTTCTTACTGTGCCTATATTAAGAC
TAGTACAAATGTGGTGTGTCTTCCAACTTTCATTGAAAATGCCATATCTATACCATATTTTATTCGAGTCACTGA
TGATGTAATGATATATTTTTTCATTATTATAGTAGAATATTTTTATGGCAAGATATTTGTGGTCTTGATCATACC
TATTAAAATAATGCCAAACACCAAATATGAATTTATGATGTACACTTTGTGCTTGGCATTAAAAGAAAAAAACA
CACATCCTGGAAGTCTGTAAGTTGTTTTTTGTTACTGTAGGTCTTCAAAGTTAAGAGTGTAAGTGAAAAATCTGG
AGGAGAGGATAATTTCCACTGTGTGGAATGTGAATAGTTAAATGAAAAGTTATGGTTATTTAATGTAATTATTAC
TTCAAATCCTTTGGTCACTGTGATTTCAAGCATGTTTTCTTTTTCTCCTTTATATGACTTTCTCTGAGTTGGGCA
AAGAAGAAGCTGACACACCGTATGTTGTTAGAGTCTTTTATCTGGTCAGGGGAAACAAAATCTTGACCCAGCTGA
ACATGTCTTCCTGAGTCAGTGCCTGAATCTTTATTTTTTAAATTGAATGTTCCTTAAAGGTTAACATTTCTAAAG
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FIGURE 4134B

CAATATTAAGAAAGACTTTAAATGTTATTTTGGAAGACTTACGATGCATGTATACAAACGAATAGCAGATAATGA
TGACTAGTTCACACATAAAGTCCTTTTAAGGAGAAAATCTAAAATGAAAAGTGGATAAACAGAACATTTATAAGT
GATCAGTTAATGCCTAAGAGTGAAAGTAGTTCTATTGACATTCCTCAAGATATTTAATATCAACTGCATTATGTA
TTATGTCTGCTTAAATCATTTAAAAACGGCAAAGAATTATATAGACTATGAGGTACCTTGCTGTGTAGGAGGATG
AAAGGGGAGTTGATAGTCTCATAAAACTAATTTGGCTTCAAGTTTCATGAATCTGTAACTAGAATTTAATTTTCA
CCCCAATAATGTTCTATATAGCCTTTGCTAAAGAGCAACTAATAAATTAAACCTATTCTTTC

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FIGURE 4135

CTTTCTGTGCCGATAACGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCGCCGGACTTTCTGTAAGAAGTGTG
GCAAGCACCAACCCCATAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTATGCCCAGGGAAAGCGGCGTT
ATGACAGGAAGCAGAGTGGCTATGGTGGGCAAACTAAGCCAATTTTCTGGAAAAAGGCTAAAACTACAAAGATTG
TGCTAAGGCTTGAGTGCATTGAGCCCAACTGCAGATCTAAGAGAATGCTGGCTATTAAAAGATGCAAGCATTTTG
AACTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATTCAGTTCTAAGTGTCATCTTTTATTATGAAGACAATAA
AATCTTGAGTTTATGTTC

4484/6881
FIGURE 4136

AGGAGGAGGAGGAAGATCAGGAGGAGGAGGAAGAAGAGGAAAAAAGAGAAAAAGAAGAAATATCACAGAAAAAAA
AATTCTTCGTTGTCTAGACTGGGCTTTTTTTCCCCCCTAAAAAATAGCATATTGGAGAATTGGGAGAAGTCTCTT
TGGTTTGGAAAAAAAAAAAAGGAATCTTCAGCCTAGATCACTTTCTTATCCGGACTGGGATATTAAATATACGAC
ACATCCAGGAGTTTATTGGAGCGCAGACTG**ATG**GCGCAAAGGTACGATGAGCTGCCCCATTACGGCGGGATGGAC
GGAGTAGGGGTTCCCGCTTCCATGTACGGAGACCCTCACGCGCCGCGGCCGATCCCCCCGGTTCACCACCTGAAC
CACGGGCCGCCGCTCCACGCCACACAGCACTACGGCGCGCACGCCCCGCACCCCAATGTCATGCCGGCCAGTATG
GGATCCGCTGTCAACGACGCCTTGAAGCGGGACAAGGACGCGATCTATGGGCACCCGTTGTTTCCTCTGTTAGCT
CTGGTCTTTGAGAAGTGCGAGCTGGCGACCTGCACTCCCCGGGAACCTGGAGTGGCTGGCGGAGACGTCTGCTCC
TCCGACTCCTTCAACGAGGACATCGCGGTCTTCGCCAAGCAGGTTCGCGCCGAAAAGCCACTTTTTTCCTCAAAT
CCAGAGCTGGACAATTTGATGATACAAGCAATACAAGTACTAAGGTTTCATCTTTTGGAGTTAGAAAAGGTCCAC
GAACTGTGCGATAACTTCTGCCACCGATACATTAGCTGTTTGAAGGGGAAAATGCCCATCGACCTCGTCATTGAT
GAAAGAGACGGCAGCTCCAAGTCAGATCATGAAGAACTTTCAGGCTCCTCCACAAATCTCGCTGACCATAACCCT
TCTTCTTGGCGAGACCACGATGATGCAACCTCAACCCACTCAGCAGGCACCCCAGGGCCCTCCAGTGGGGGCCAT
GCTTCCCAGAGCGGAGACAACAGCAGTGAGCAAGGGGATGGTTTAGCAACAGTGTAGCTTCACCTGGTACAGGT
GACGATGATGATCCGGATAAGGACAAAAAACGCCAGAAGAAAAGAGGCATTTTCCCCAAAGTAGCAACAAATATC
ATGAGAGCATGGCTCTTCCAGCATCTCACAGTTTAT**TAA**TGCCAGAAGAAGAATAGTACAGCCCATGATTGACCA
GTCAAATCGAGCAGTGAGCCAAGGAGCAGCATATAGTCCAGAGGGTCAGCCCATGGGGAGCTTTGTGTTGGATGG
TCAGCAACACATGGGGATCCGGCCTGCAGGACCTATGAGTGGAATGGGCATGAATATGGGCATGGATGGGCAATG
GCACTACATGTAACCTTCATCATGTAAAGCAATCGCAAAGCAAGGGGGAAGTTTGCAGAGCATGCCAGGGGACTA
CGTTTCTCAGGGTGGTCCTATGGGAATGAGTATGGCACAGCCAAGTTACACTCCTCCCCAGATGACCCCACACCC
TACTCAATTAAGACATGGACCCCCAATGCATTCATATTTGCCAAGCCATCCCCACCACCCAGCCATGATGATGCA
CGGAGGACCCCCTACCCACCCTGGAATGACTATGTCAGCACAGAGCCCCACAATGTTAAATTCTGTAGATCCCAA
TGTTGGCGGACAGGTTATGGACATTCATGCCCAATAGTATAAGGGAACTCAAGGGAAAAGGAAACACACGCAAAA
ACTATTTTAAGACTTTCTGAACTTTGACCAGATGTTGACACTTAATATGAAATTCCAGACAGCTGTGATTATTTT
TTACTTTTGTCATTTTTCATCAAGCAACAGAGGACCAATGCAACAAGAACACAAATGTGAAATCATGGGCTGACT
GAGACAATTCTGTCCATGTAAAGATCCTCTGGAAAAAGACTCCGAGAGTTATAACTACTGTAGTATAAATATAGG
AACTAAGTTAAACTTGTACATTTCTGTTGATCACGCCGTTATGTTGCCTCAAATAGTTTTAGAAGAGAAAAAAAA
ATATATCCTTGTTTTCCACACTATGTGTGTTGTTCCCAAAAGAATGACTGTTTTGGTTCATCAGTGAATTCACCA
TCCAGGAGAGACTGTGGTATATATTTTAAACCTGTTGGGCCAATGAGAAAAGAACCACACTGGAGATCATGATGA
ACTTTTGGCTGAACCTCATCACTCGAACTCCAGCTTCAGAATGTGTTTTCATGCCCGGCCTTTGTTCCTCCATAA
ATGTGTCCTTTAGTTTCAAACAGATCTTTATAGTTCGTGCTTCATAAGCCAATTCTTATTATTATTTTTGGGGGA
CTCTTCTTCAAAGAGCTTGCCAATGAAGATTTAAAGACAGAGCAGGAGCTTCTTCCAGGAGTTCTGAGCCTTGGT
TGTGGACAAAACAATCTTAAGTTGGGCAGCTTTCCTCAACACAAAAAAAAGTTATTAATGGTCATTGAACCATAA
CTAGGACTTTATCAGAAACTCAAAGCTTGGGGGATAAAAAGGAGCAAGAGAATACTGTAACAAACTTCGTACAGA
GTTCGGTCTATTAATTGTTTCATGTTAGATATTCTATGTGTTACCTCAATTGAAAAAAAAAAGAATGTTTTTGC
TAGTATCAGATCTGCTGTGGAATTGGTATTGTATGTCCATGAATTCTTCTTTTCTCAGCACGTGTTCCTCACTAG
AAGAAAATGCTGTTACCTTTAAGCTTTGTCAAATTTACATTAAAATACTTGTATGAGGACTGTGACGTTATGTT

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FIGURE 4137

MAQRYDELPHYGGMDGVGVPASMYGDPHAPRPIPPVHHLNHGPPLHATQHYGAHAPHPNVMPASMGSAVNDALKR
DKDAIYGHPLFPLLALVFEKCELATCTPREPGVAGGDVCSSDSFNEDIAVFAKQVRAEKPLFSSNPELDNLMIQA
IQVLRFHLLELEKVHELCDNFCHRYISCLKGKMPIDLVIDERDGSSKSDHEELSGSSTNLADHNPSSWRDHDDAT
STHSAGTPGPSSGGHASQSGDNSSEQGDGLDNSVASPGTGDDDDPDKDKKRQKKRGIFPKVATNIMRAWLFQHLT
VY

FIGURE 4138A

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GGACGCACAGGCATTCCCCGCGCCCCTCCAGCCCTCGCCGCCCTCGCCACCGCTCCCGGCCGCCGCGCTCCGGTA
CACACAGGATCCCTGCTGGGCACCAACAGCTCCACCATGGGGCTGGCCTGGGGACTAGGCGTCCTGTTCCTGATG
CATGTGTGTGGCACCAACCGCATTCCAGAGTCTGGCGGAGACAACAGCGTGTTTGACATCTTTGAACTCACCGGG
GCCGCCCGCAAGGGGTCTGGGCGCCGACTGGTGAAGGGCCCCGACCCTTCCAGCCCAGCTTTCCGCATCGAGGAT
GCCAACCTGATCCCCCCTGTGCCTGATGACAAGTTCCAAGACCTGGTGGATGCTGTGCGGGCAGAAAAGGGTTTC
CTCCTTCTGGCATCCCTGAGGCAGATGAAGAAGACCCGGGGCACGCTGCTGGCCCTGGAGCGGAAAGACCACTCT
GGCCAGGTCTTCAGCGTGGTGTCCAATGGCAAGGCGGGCACCCTGGACCTCAGCCTGACCGTCCAAGGAAAGCAG
CACGTGGTGTCTGTGGAAGAAGCTCTCCTGGCAACCGGCCAGTGGAAGAGCATCACCCTGTTTGTGCAGGAAGAC
AGGGCCCAGCTGTACATCGACTGTGAAAAGATGGAGAATGCTGAGTTGGACGTCCCCATCCAAAGCGTCTTCACC
AGAGACCTGGCCAGCATCGCCAGACTCCGCATCGCAAAGGGGGGCGTCAATGACAATTTCCAGGGGGTGCTGCAG
AATGTGAGGTTTGTCTTTGGAACCACACCAGAAGACATCCTCAGGAACAAAGGCTGCTCCAGCTCTACCAGTGTC
CTCCTCACCCTTGACAACAACGTGGTGAATGGTTCCAGCCCTGCCATCCGCACTAACTACATTGGCCACAAGACA
AAGGACTTGCAAGCCATCTGCGGCATCTCCTGTGATGAGCTGTCCAGCATGGTCCTGGAACTCAGGGGCCTGCGC
ACCATTGTGACCACGCTGCAGGACAGCATCCGCAAAGTGACTGAAGAGAACAAAGAGTTGGCCAATGAGCTGAGG
CGGCCTCCCCTATGCTATCACAACGGAGTTCAGTACAGAAATAACGAGGAATGGACTGTTGATAGCTGCACTGAG
TGTCACTGTCAGAACTCAGTTACCATCTGCAAAAAGGTGTCCTGCCCCATCATGCCCTGCTCCAATGCCACAGTT
CCTGATGGAGAATGCTGTCCTCGCTGTTGGCCCAGCGACTCTGCGGACGATGGCTGGTCTCCATGGTCCGAGTGG
ACCTCCTGTTCTACGAGCTGTGGCAATGGAATTCAGCAGCGCGGCCGCTCCTGCGATAGCCTCAACAACCGATGT
GAGGGCTCCTCGGTCCAGACACGGACCTGCCACATTCAGGAGTGTGACAAGAGATTTAAACAGGATGGTGGCTGG
AGCCACTGGTCCCCGTGGTCATCTTGTTCTGTGACATGTGGTGATGGTGTGATCACAAGGATCCGGCTCTGCAAC
TCTCCCAGCCCCCAGATGAACGGGAAACCCTGTGAAGGCGAAGCGCGGGAGACCAAAGCCTGCAAGAAAGACGCC
TGCCCCATCAATGGAGGCTGGGGTCCTTGGTCACCATGGGACATCTGTTCTGTCACCTGTGGAGGAGGGGTACAG
AAACGTAGTCGTCTCTGCAACAACCCCACACCCCAGTTTGGAGGCAAGGACTGCGTTGGTGATGTAACAGAAAAC
CAGATCTGCAACAAGCAGGACTGTCCAATTGATGGATGCCTGTCCAATCCCTGCTTTGCCGGCGTGAAGTGTACT
AGCTACCCTGATGGCAGCTGGAAATGTGGTGCTTGTCCCCCTGGTTACAGTGGAAATGGCATCCAGTGCACAGAT
GTTGATGAGTGCAAAGAAGTGCCTGATGCCTGCTTCAACCACAATGGAGAGCACCGGTGTGAGAACACGGACCCC
GGCTACAACTGCCTGCCCTGCCCCCCACGCTTCACCGGCTCACAGCCCCTTCGGCCAGGGTGTCGAACATGCCACG
GCCAACAAACAGGTGTGCAAGCCCCGTAACCCCTGCACGGATGGGACCCACGACTGCAACAAGAACGCCAAGTGC
AACTACCTGGGCCACTATAGCGACCCCATGTACCGCTGCGAGTGCAAGCCTGGCTACGCTGGCAATGGCATCATC
TGCGGGGAGGACACAGACCTGGATGGCTGGCCCAATGAGAACCTGGTGTGCGTGGCCAATGCGACTTACCACTGC
AAAAAGGATAATTGCCCCAACCTTCCCAACTCAGGGCAGGAAGACTATGACAAGGATGGAATTGGTGATGCCTGT
GATGATGACGATGACAATGATAAAATTCCAGATGACAGGGACAACTGTCCATTCCATTACAACCCAGCTCAGTAT
GACTATGACAGAGATGATGTGGGAGACCGCTGTGACAACTGTCCCTACAACCACAACCCAGATCAGGCAGACACA
GACAACAATGGGGAAGGAGACGCCTGTGCTGCAGACATTGATGGAGACGGTATCCTCAATGAACGGGACAACTGC
CAGTACGTCTACAATGTGGACCAGAGAGACACTGATATGGATGGGGTTGGAGATCAGTGTGACAATTGCCCCTTG
GAACACAATCCGGATCAGCTGGACTCTGACTCAGACCGCATTGGAGATACCTGTGACAACAATCAGGATATTGAT
GAAGATGGCCACCAGAACAATCTGGACAACTGTCCCTATGTGCCCAATGCCAACCAGGCTGACCATGACAAAGAT
GGCAAGGGAGATGCCTGTGACCACGATGATGACAACGATGGCATTCCTGATGACAAGGACAACTGCAGACTCGTG
CCCAATCCCGACCAGAAGGACTCTGACGGCGATGGTCGAGGTGATGCCTGCAAAGATGATTTTGACCATGACAGT
GTGCCAGACATCGATGACATCTGTCCTGAGAATGTTGACATCAGTGAGACCGATTTCCGCCGATTCCAGATGATT
CCTCTGGACCCCAAAGGGACATCCCAAAATGACCCTAACTGGGTTGTACGCCATCAGGGTAAAGAACTCGTCCAG
ACTGTCAACTGTGATCCTGGACTCGCTGTAGGTTATGATGAGTTTAATGCTGTGGACTTCAGTGGCACCTTCTTC
ATCAACACCGAAAGGGACGATGACTATGCTGGATTTGTCTTTGGCTACCAGTCCAGCAGCCGCTTTTATGTTGTG
ATGTGGAAGCAAGTCACCCAGTCCTACTGGGACACCAACCCCACGAGGGCTCAGGGATACTCGGGCCTTTCTGTG
AAAGTTGTAAACTCCACCACAGGGCCTGGCGAGCACCTGCGGAACGCCCTGTGGCACACAGGAAACACCCCTGGC
CAGGTGCGCACCCTGTGGCATGACCCTCGTCACATAGGCTGGAAAGATTTCACCGCCTACAGATGGCGTCTCAGC
CACAGGCCAAAGACGGGTTTCATTAGAGTGGTGATGTATGAAGGGAAGAAAATCATGGCTGACTCAGGACCCATC
TATGATAAAACCTATGCTGGTGGTAGACTAGGGTTGTTTGTCTTCTCTCAAGAAATGGTGTTCTTCTCTGACCTG
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FIGURE 4138B

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AAATACGAATGTAGAGATCCCTAATCATCAAATTGTTGATTGAAAGACTGATCATAAACCAATGCTGGTATTGCA
CCTTCTGGAACTATGGGCTTGAGAAAACCCCCAGGATCACTTCTCCTTGGCTTCCTTCTTTTCTGTGCTTGCATC
AGTGTGGACTCCTAGAACGTGCGACCTGCCTCAAGAAAATGCAGTTTTCAAAAACAGACTCAGCATTCAGCCTCC
AATGAATAAGACATCTTCCAAGCATATAAACAATTGCTTTGGTTTCCTTTTGAAAAAGCATCTACTTGCTTCAGT
TGGGAAGGTGCCCATTCCACTCTGCCTTTGTCACAGAGCAGGGTGCTATTGTGAGGCCATCTCTGAGCAGTGGAC
TCAAAAGCATTTTCAGGCATGTCAGAGAAGGGAGGACTCACTAGAATTAGCAAACAAAACCACCCTGACATCCTC
CTTCAGGAACACGGGGAGCAGAGGCCAAAGCACTAAGGGGAGGGCGCATACCCGAGACGATTGTATGAAGAAAAT
ATGGAGGAACTGTTACATGTTCGGTACTAAGTCATTTTCAGGGGATTGAAAGACTATTGCTGGATTTCATGATGC
TGACTGGCGTTAGCTGATTAACCCATGTAAATAGGCACTTAAATAGAAGCAGGAAAGGGAGACAAAGACTGGCTT
CTGGACTTCCTCCCTGATCCCCACCCTTACTCATCACCTGCAGTGGCCAGAATTAGGGAATCAGAATCAAACCAG
TGTAAGGCAGTGCTGGCTGCCATTGCCTGGTCACATTGAAATTGGTGGCTTCATTCTAGATGTAGCTTGTGCAGA
TGTAGCAGGAAAATAGGAAAACCTACCATCTCAGTGAGCACCAGCTGCCTCCCAAAGGAGGGGCAGCCGTGCTTA
TATTTTTATGGTTACAATGGCACAAAATTATTATCAACCTAACTAAAACATTCCTTTTCTCTTTTTTCCTGAATT
ATCATGGAGTTTTCTAATTCTCTCTTTTGGAATGTAGATTTTTTTTAAATGCTTTACGATGTAAAATATTTATTT
TTTACTTATTCTGGAAGATCTGGCTGAAGGATTATTCATGGAACAGGAAGAAGCGTAAAGACTATCCATGTCATC
TTTGTTGAGAGTCTTCGTGACTGTAAGATTGTAAATACAGATTATTTATTAACTCTGTTCTGCCTGGAAATTTAG
GCTTCATACGGAAAGTGTTTGAGAGCAAGTAGTTGACATTTATCAGCAAATCTCTTGCAAGAACAGCACAAGGAA
AATCAGTCTAATAAGCTGCTCTGCCCCTTGTGCTCAGAGTGGATGTTATGGGATTCTTTTTTTCTCTGTTTTATC
TTTTCAAGTGGAATTAGTTGGTTATCCATTTGCAAATGTTTTAAATTGCAAAGAAAGCCATGAGGTCTTCAATAC
TGTTTTACCCCATCCCTTGTGCATATTTCCAGGGAGAAGGAAAGCATATACACTTTTTTCTTTCATTTTTCCAAA
AGAGAAAAAAATGACAAAAGGTGAAACTTACATACAAATATTACCTCATTTGTTGTGTGACTGAGTAAAGAATTT
TTGGATCAAGCGGAAAGAGTTTAAGTGTCTAACAAACTTAAAGCTACTGTAGTACCTAAAAAGTCAGTGTTGTAC
ATAGCATAAAAACTCTGCAGAGAAGTATTCCCAATAAGGAAATAGCATTGAAATGTTAAATACAATTTCTGAAAG
TTATGTTTTTTTTCTATCATCTGGTATACCATTGCTTTATTTTTATAAATTATTTTCTCATTGCCATTGGAATAG
ATATCTCAGATTGTGTAGATATGCTATTTAAATAATTTATCAGGAAATACTGCCTGTAGAGTTAGTATTTCTATT
TTTATATAATGTTTGCACACTGAATTGAAGAATTGTTGGTTTTTTCTTTTTTTTGTTTGTTTTTTTTTTTTT
TTTTTGCTTTTGACCTCCCATTTTTACTATTTGCCAATACCTTTTTCTAGGAATGTGCTTTTTTTTGTACACAT
TTTTATCCATTTTACATTCTAAAGCAGTGTAAGTTGTATATTACTGTTTCTTATGTACAAGGAACAACAATAAAT
CATATGGAAATTTATATTT
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FIGURE 4139A

GTTTGTTAGGGAGTCGTGTGCGTGCCTTGGTCGCTTCTGTAGCTCCGAGGGCAGGTTGCGGAAGAAAGCCCAGGC
GGTCTGTGGCCCAGAGGAAAGGCCTGCAGCAGGACGAGGACCTGAGCCAGGAATGCAGGATGGCGGCGGTGAAGA
AGGAAGGGGGTGCTCTGAGTGAAGCCATGTCCCTGGAGGGAGATGAATGGGAACTGAGTAAAGAAAATGTACAAC
CTTTAAGGCAAGGGCGGATCATGTCCACGCTTCAGGGAGCACTGGCACAAGAATCTGCCTGTAACAATACTCTTC
AGCAGCAGAAACGGGCATTTGAATATGAAATTCGATTTTACACTGGAAATGACCCTCTGGATGTTTGGGATAGGT
ATATCAGCTGGACAGAGCAGAACTATCCTCAAGGTGGGAAGGAGAGTAATATGTCAACGTTATTAGAAAGAGCTG
TAGAAGCACTACAAGGAGAAAAACGATATTATAGTGATCCTCGATTTCTCAATCTCTGGCTTAAATTAGGGCGTT
TATGCAATGAGCCTTTGGATATGTACAGTTACTTGCACAACCAAGGGATTGGTGTTTCACTTGCTCAGTTCTATA
TCTCATGGGCAGAAGAATATGAAGCTAGAGAAAACTTTAGGAAAGCAGATGCGATATTTCAGGAAGGGATTCAAC
AGAAGGCTGAACCACTAGAAAGACTACAGTCCCAGCACCGACAATTCCAAGCTCGAGTGTCTCGGCAAACTCTGT
TGGCACTTGAGAAGAAGAAGAGGAGGAAGTTTTTGAGTCTTCTGTACCACAACGAAGCACACTAGCTGAACTAA
AGAGCAAAGGGAAAAAGACAGCAAGAGCTCCAATCATCCGTGTAGGAGGTGCTCTCAAGGCTCCAAGCCAGAACA
GAGGACTCCAAAATCCATTTCCTCAACAGATGCAAAATAATAGTAGAATTACTGTTTTTGATGAAAATGCTGATG
AGGCTTCTACAGCAGAGTTGTCTAAGCCTACAGTCCAGCCATGGATAGCACCCCCCATGCCCAGGGCCAAAGAGA
ATGAGCTGCAAGCAGGCCCTTGGAACACAGGCAGGTCCTTGGAACACAGGCCTCGTGGCAATACAGCTTCACTGA
TAGCTGTACCCGCTGTGCTTCCCAGTTTCACTCCATATGTGGAAGAGACTGCACAACAGCCAGTTATGACACCAT
GTAAAATTGAACCTAGTATAAACCACATCCTAAGCACCAGAAAGCCTGGAAAGGAAGAAGGAGATTCTCTACAAA
GGGTTCAGAGCCATCAGCAAGCGTCTGAGGAGAAGAAAGAGAAGATGATGTATTGTAAGGAGAAGATTTATGCAG
GAGTAGGGGAATTCTCCTTTGAAGAAATTCGGGCTGAAGTTTTCCGGAAGAAATTAAAAGAGCAAAGGGAAGCCG
AGCTATTGACCAGTGCAGAGAAGAGAGCAGAAATGCAGAAACAGATTGAAGAGATGGAGAAGAAGCTAAAAGAAA
TCCAAACTACTCAGCAAGAAAGAACAGGTGATCAGCAAGAAGAGACGATGCCTACAAAGGAGACAACTAAACTGC
AAAATTGCTTCCGAGTCTCAGAAAATACCAGGAATGACTCTATCCAGTTCTGTTTGTCAAGTAAACTGTTGTGCCA
GAGAAACTTCACTTGCGGAGAACATTTGGCAGGAACAACCTCATTCTAAAGGTCCCAGTGTACCTTTCTCCATTT
TTGATGAGTTTCTTCTTTCAGAAAAGAAGAATAAAAGTCCTCCTGCAGATCCCCCACGAGTTTTAGCTCAACGAA
GACCCCTTGCAGTTCTCAAAACCTCAGAAAGCATCACCTCAAATGAAGATGTGTCTCCAGATGTTTGTGATGAAT
TTACAGGAATTGAACCCTTGAGCGAGGATGCCATTATCACAGGCTTCAGAAATGTAACAATTTGTCCTAACCCAG
AAGACACTTGTGACTTTGCCAGAGCAGCTCGTTTTGTATCCACTCCTTTTCATGAGATAATGTCCTTGAAGGATC
TCCCTTCTGATCCTGAGAGACTGTTACCGGAAGAAGATCTAGATGTAAAGACCTCTGAGGACCAGCAGACAGCTT
GTGGCACTATCTACAGTCAGACTCTCAGCATCAAGAAGCTGAGCCCAATTATTGAAGACAGTCGTGAAGCCACAC
ACTCCTCTGGCTTCTCTGGTTCTTCTGCCTCGGTTGCAAGCACCTCCTCCATCAAATGTCTTCAAATTCCTGAGA
AACTAGAACTTACTAATGAGACTTCAGAAAACCCTACTCAGTCACCATGGTGTTCACAGTATCGCAGACAGCTAC
TGAAGTCCCTACCAGAGTTAAGTGCCTCTGCAGAGTTGTGTATAGAAGACAGACCAATGCCTAAGTTGGAAATTG
AGAAGGAAATTGAATTAGGTAATGAGGATTACTGCATTAAACGAGAATACCTAATATGTGAAGATTACAAGTTAT
TCTGGGTGGCGCCAAGAAACTCTGCAGAATTAACAGTAATAAAGGTATCTTCTCAACCTGTCCCATGGGACTTTT
ATATCAACCTCAAGTTAAAGGAACGTTTAAATGAAGATTTTGATCATTTTTGCAGCTGTTATCAATATCAAGATG
GCTGTATTGTTTGGCACCAATATATAAACTGCTTCACCCTTCAGGATCTTCTCCAACACAGTGAATATATTACCC
ATGAAATAACAGTGTTGATTATTTATAACCTTTTGACAATAGTGGAGATGCTACACAAAGCAGAAATAGTCCATG
GTGACTTGAGTCCAAGGTGTCTGATTCTCAGAAACAGAATCCACGATCCCTATGATTGTAACAAGAACAATCAAG
CTTTGAAGATAGTGGACTTTTCCTACAGTGTTGACCTTAGGGTGCAGCTGGATGTTTTTACCCTCAGCGGCTTTC
GGACTGTACAGATCCTGGAAGGACAAAAGATCCTGGCTAACTGTTCTTCTCCCTACCAGGTAGACCTGTTTGGTA
TAGCAGATTTAGCACATTTACTATTGTTCAAGGAACACCTACAGGTCTTCTGGGATGGGTCCTTCTGGAAACTTA
GCCAAAATATTTCTGAGCTAAAAGATGGTGAATTGTGGAATAAATTCTTTGTGCGGATTCTGAATGCCAATGATG
AGGCCACAGTGTCTGTTCTTGGGGAGCTTGCAGCAGAAATGAATGGGGTTTTTGACACTACATTCCAAAGTCACC
TGAACAAAGCCTTATGGAAGGTAGGGAAGTTAACTAGTCCTGGGGCTTTGCTCTTTCAGTGAGCTAGGCAATCAA
GTCTCACAGATTGCTGCCTCAGAGCAATGGTTGTATTGTGGAACACTGAAACTGTATGTGCTGTAATTTAATTTA
GGACACATTTAGATGCACTACCATTGCTGTTCTACTTTTTGGTACAGGTATATTTTGACGTCACTGATATTTTTT
ATACAGTGATATACTTACTCATGGCCTTGTCTAACTTTTGTGAAGAACTATTTTATTCTAAACAGACTCATTACA
AATGGTTACCTTGTTATTTAACCCATTTGTCTCTACTTTTCCCTGTACTTTTCCCATTTGTAATTTGTAAAATGT

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FIGURE 4139B

TCTCTTATGATCACCATGTATTTTGTAAATAATAAAATAGTATCTGTTAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4140

MAAVKKEGGALSEAMSLEGDEWELSKENVQPLRQGRIMSTLQGALAQESACNNTLQQQKRAFEYEIRFYTGNDPL
DVWDRYISWTEQNYPQGGKESNMSTLLERAVEALQGEKRYYSDPRFLNLWLKLGRLCNEPLDMYSYLHNQGIGVS
LAQFYISWAEEYEARENFRKADAIFQEGIQQKAEPLERLQSQHRQFQARVSRQTLLALEKEEEEEVFESSVPQRS
TLAELKSKGKKTARAPIIRVGGALKAPSQNRGLQNPFPQQMQNNSRITVFDENADEASTAELSKPTVQPWIAPPM
PRAKENELQAGPWNTGRSLEHRPRGNTASLIAVPAVLPSFTPYVEETAQQPVMTPCKIEPSINHILSTRKPGKEE
GDSLQRVQSHQQASEEKKEKMMYCKEKIYAGVGEFSFEEIRAEVFRKKLKEQREAELLTSAEKRAEMQKQIEEME
KKLKEIQTTQQERTGDQQEETMPTKETTKLQIASESQKIPGMTLSSSVCQVNCCARETSLAENIWQEQPHSKGPS
VPFSIFDEFLLSEKKNKSPPADPPRVLAQRRPLAVLKTSESITSNEDVSPDVCDEFTGIEPLSEDAIITGFRNVT
ICPNPEDTCDFARAARFVSTPFHEIMSLKDLPSDPERLLPEEDLDVKTSEDQQTACGTIYSQTLSIKKLSPIIED
SREATHSSGFSGSSASVASTSSIKCLQIPEKLELTNETSENPTQSPWCSQYRRQLLKSLPELSASAELCIEDRPM
PKLEIEKEIELGNEDYCIKREYLICEDYKLFWVAPRNSAELTVIKVSSQPVPWDFYINLKLKERLNEDFDHFCSC
YQYQDGCIVWHQYINCFTLQDLLQHSEYITHEITVLIIYNLLTIVEMLHKAEIVHGDLSPRCLILRNRIHDPYDC
NKNNQALKIVDFSYSVDLRVQLDVFTLSGFRTVQILEGQKILANCSSPYQVDLFGIADLAHLLLFKEHLQVFWDG
SFWKLSQNISELKDGELWNKFFVRILNANDEATVSVLGELAAEMNGVFDTTFQSHLNKALWKVGKLTSPGALLFQ

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FIGURE 4141A

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CAGCCAGGGCCACCCCAGGGGCTATAAGAGCAACTAGATTTCTGGAGCAGCTCGGGGATGGGTGCCATTTGAGCC
CAGCTTGGCTCCCCCTCCTGGCTGGCCTCCTTCCTGCCCTTCTGCCTGCCTGTGTCTGCTGAGATTCTGCAAAGA
GGAACGTTGGCACCATGTCTCTGCTCAACCCTGTCCTGCTGCCCCCCAAGGTGAAGGCCTATCTGAGCCAAGGGG
AGCGCTTCATCAAATGGGATGATGAAACTACAGTTGCCTCTCCAGTTATCCTCCGTGTGGATCCTAAGGGCTACT
ACTTATACTGGACGTATCAAAGTAAGGAGATGGAGTTTCTGGATATCACCAGCATCCGGGATACTCGCTTTGGGA
AGTTTGCCAAGATGCCCAAGAGCCAGAAGCTCCGGGACGTCTTCAACATGGACTTTCCTGATAACAGTTTCCTGC
TGAAGACACTCACGGTGGTGTCCGGCCCGGACATGGTGGACCTCACCTTCCACAACTTCGTCTCCTACAAGGAGA
ACGTGGGCAAGGCCTGGGCTGAGGACGTACTGGCCCTAGTCAAACATCCGCTGACGGCCAACGCCTCCCGCAGCA
CCTTCCTGGACAAGATCCTTGTGAAGCTCAAGATGCAGCTCAACTCTGAAGGGAAGATTCCGGTGAAGAACTTTT
TCCAGATGTTTCCTGCTGACCGCAAGCGGGTGGAAGCTGCTCTCAGTGCCTGCCACCTCCCCAAAGGCAAAAATG
ACGCCATCAATCCTGAGGACTTCCCAGAACCTGTCTACAAGAGTTTCCTCATGAGCCTCTGTCCTCGGCCAGAAA
TAGATGAGATCTTCACTTCTTACCATGCTAAGGCCAAACCCTACATGACGAAGGAGCACCTGACCAAATTCATCA
ACCAGAAACAGCGGGACTCCCGGCTTAACTCCCTGCTGTTCCCGCCAGCACGGCCTGACCAGGTGCAGGGCCTCA
TCGACAAGTATGAGCCCAGTGGCATCAATGCACAGAGGGGCCAGCTGTCACCTGAAGGCATGGTCTGGTTTCTCT
GTGGGCCAGAGAACAGCGTGCTGGCCCAGGACAAGCTGCTGCTCCACCACGACATGACGCAGCCACTCAATCATT
ACTTCATCAACTCGTCCCACAACACCTACCTGACAGCCGGCCAGTTCTCAGGCCTCTCCTCGGCTGAGATGTACC
GCCAGGTGCTGCTCTCTGGCTGCCGTTGCGTGGAGCTAGACTGCTGGAAGGGGAAACCCCCTGACGAGGAGCCCA
TTATCACCCATGGCTTCACCATGACCACAGACATCTTCTTCAAAGAAGCAATTGAGGCTATTGCAGAAAGTGCCT
TTAAGACCTCCCCCTATCCCATCATCCTGTCGTTTGAGAACCATGTGGACTCACCCCGCCAGCAGGCTAAGATGG
CTGAGTATTGCCGGACGATCTTTGGGGATATGCTGCTCACAGAGCCCCTGGAAAAGTTCCCACTAAAACCAGGTG
TCCCCCTGCCCAGCCCTGAGGATCTCAGGGGCAAGATCCTCATCAAGAACAAGAAGAACCAGTTTTCTGGCCCCA
CCTCCTCCAGTAAGGATACCGGTGGGGAGGCTGAGGGCAGCAGCCCACCCAGTGCCCCTGCAGTGTGGGCTGGCG
AGGAAGGGACTGAGCTGGAGGAGGAGGAGGTGGAAGAGGAAGAGGAGGAGGAGTCAGGAAACCTGGATGAAGAAG
AGATTAAGAAGATGCAGTCGGATGAGGGCACAGCGGGCCTGGAAGTGACGGCTTATGAGGAGATGTCCAGCCTAG
TCAATTACATCCAGCCCACCAAGTTCGTCTCCTTTGAGTTCTCTGCCCAAAAGAACCGAAGTTATGTCATCTCGT
CCTTCACAGAGCTCAAGGCATATGACCTGCTCTCCAAGGCCTCGGTGCAGTTTGTGGACTACAACAAGCGCCAGA
TGAGCCGCATTTACCCCAAGGGAACCCGCATGGACTCCTCCAACTACATGCCCCAGATGTTCTGGAATGCTGGAT
GCCAGATGGTTGCCCTCAACTTCCAGACGATGGACTTGCCCATGCAGCAGAACATGGCAGTATTTGAGTTCAACG
GGCAGAGCGGCTACCTCCTCAAGCATGAGTTCATGCGCCGGCCGGACAAGCAGTTCAACCCCTTCTCAGTGGACC
GCATCGACGTGGTGGTGGCCACCACCCTTTCCATTACGGTGATCTCTGGGCAGTTCCTGTCAGAACGCAGCGTGC
GCACCTATGTAGAAGTGGAGCTGTTTGGCCTTCCTGGGGACCCCAAGAGGCGCTATCGAACTAAGCTGTCACCCA
GTACTAACTCCATCAATCCTGTCTGGAAGGAGGAGCCCTTTGTCTTTGAGAAGATCTTGATGCCTGAGCTGGCCT
CCCTCAGAGTGGCTGTGATGGAGGAAGGCAACAAGTTTCTTGGACACCGCATCATCCCCATCAATGCCCTAAATT
CTGGGTACCACCACCTGTGCCTGCACAGTGAGAGCAACATGCCCCTCACCATGCCTGCGCTCTTCATCTTCCTGG
AGATGAAGGACTACATACCTGGTGCTTGGGCAGATCTCACTGTGGCCCTCGCCAACCCCATTAAGTTCTTCAGTG
CCCATGACACGAAGTCTGTGAAGCTCAAGGAGGCCATGGGAGGTCTGCCTGAGAAGCCCTTCCCACTGGCGAGTC
CAGTTGCCAGCCAGGTCAATGGGGCGTTGGCCCCAACGAGCAATGGGTCACCAGCAGCCAGGGCCGGGGCCAGGG
AAGAGGCTATGAAAGAAGCTGCGGAGCCGCGGACCGCCAGCCTGGAGGAGCTCCGGGAGCTAAAGGGCGTGGTGA
AGCTGCAGCGGCGGCACGAGAAGGAGCTGCGAGAGTTGGAGCGGCGCGGAGCGCGGCGCTGGGAGGAGCTGCTGC
AGCGGGGCGCGGCGCAGCTGGCGGAGCTCGGGCCACCGGGCGTGGGGGGCGTCGGGGCCTGCAAGCTCGGTCCCG
GCAAGGGCTCTCGCAAGAAGAGGAGCCTGCCCCGCGAGGAGAGCGCCGGAGCCGCGCCGGGCGAGGGCCCTGAGG
GCGTGGACGGGCGCGTGCGGGAGCTGAAAGACAGGCTGGAGCTGGAGCTGCTGCGGCAGGGCGAGGAGCAGTACG
AGTGCGTTCTGAAGCGCAAGGAGCAGCACGTGGCCGAGCAAATCTCCAAAATGATGGAGCTGGCCAGAGAGAAAC
AGGCGGCAGAGCTGAAGGCCCTGAAGGAGACGTCGGAGAACGACACCAAAGAGATGAAGAAAAAGCTGGAGACAA
AGAGACTGGAGCGGATCCAGGGCATGACCAAAGTCACCACAGACAAGATGGCCCAGGAGAGGTTGAAGAGAGAGA
TTAACAACTCCCACATCCAGGAAGTAGTGCAGGTGATCAAGCAGATGACGGAGAACTTGGAGAGGCACCAGGAGA
AGCTGGAGGAGAAGCAGGCGGCTTGCCTGGAACAGATACGGGAGATGGAAAAGCAGTTCCAGAAGGAGGCGCTGG
CAGAGTACGAGGCCAGGATGAAGGGTCTGGAGGCAGAGGTGAAGGAGTCGGTGAGGGCCTGCCTCAGGACCTGCT
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FIGURE 4141B

TTCCCTCCGAGGCCAAGGACAAGCCTGAGAGGGCCTGCGAGTGCCCCCCAGAGCTGTGTGAGCAGGACCCACTCA
TAGCAAAGGCAGATGCCCAGGAGAGCCGCCTC**TGA**TGCCCCCATCCCACTGGGACATTTAGCAAGGAGGTTCAGC
CCCTTCTCTGGGATGTGGTTCTATTCCCCCAGGAAAAAGGAGCCCCAGCCTTCTGAGGCTGTGGGAACCTGTGGC
TGCCTTGGACGCTGCAGCCCCCTCCTCAACGGCCAGGCCAGAGTCTGAGACAGGACCCAGGCACCCTCACGGCAG
GGCCTCTCTGGGGCCTAGAAGTCTTCTCAAGCTGACTTCCTACCTCCCCCTCCATCTCTAGATAAGTGTCATATA
TTTGTTGAGGGCAAAAGACTATGGACTGGAAGGCAGAAAGTGGGATCCTGGCCCCACTCTGCCTTTCCTATTGAG
CAACCAGCTCTGGGCTCAGTTTCCTCACCTGGAGGGTTGGACCCACTCACCTCCACTCTAGCCCCGAACCCTCCT
GCCCCAGGCTTCCAGGCCCCATCAGGCCTGCCCTGAGTTGGCCTTGTCCACTCCTTGAGGCAGATCCTGGCACTA
CCTCACAGCTCCCTGGGGACGGCCACTCCCTGGCTGAGGGCCCTCCCCTCCCCTCTGCCTGTCCGGAACGGGAGG
CTGAAATGGAAAAGCTGCCTTGGCCCTGCTTGGCTGAGTCACAAGGGGCAGTGGGCTCTTGGGTGCTGTTCCACC
CTGACCCTGGCTCACCCCTCTTCCTAGGCCTGGGGGCAGGCAGTTCCTACCATGTACCCCTCTCAGGCTGCCTGC
CTGACAAGGTCAGCATCATTTGCTCTCCTGAATTTATGAGGTTTATTTATTTTTCTCTTTCCTACTCCTATTAAA
GAACCTCGTCCCAGTGAAA

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FIGURE 4142

MSLLNPVLLPPKVKAYLSQGERFIKWDDETTVASPVILRVDPKGYYLYWTYQSKEMEFLDITSIRDTRFGKFAKM
PKSQKLRDVFNMDFPDNSFLLKTLTVVSGPDMVDLTFHNFVSYKENVGKAWAEDVLALVKHPLTANASRSTFLDK
ILVKLKMQLNSEGKIPVKNFFQMFPADRKRVEAALSACHLPKGKNDAINPEDFPEPVYKSFLMSLCPRPEIDEIF
TSYHAKAKPYMTKEHLTKFINQKQRDSRLNSLLFPPARPDQVQGLIDKYEPSGINAQRGQLSPEGMVWFLCGPEN
SVLAQDKLLLHHDMTQPLNHYFINSSHNTYLTAGQFSGLSSAEMYRQVLLSGCRCVELDCWKGKPPDEEPIITHG
FTMTTDIFFKEAIEAIAESAFKTSPYPIILSFENHVDSPRQQAKMAEYCRTIFGDMLLTEPLEKFPLKPGVPLPS
PEDLRGKILIKNKKNQFSGPTSSSKDTGGEAEGSSPPSAPAVWAGEEGTELEEEEVEEEEEEESGNLDEEEIKKM
QSDEGTAGLEVTAYEEMSSLVNYIQPTKFVSFEFSAQKNRSYVISSFTELKAYDLLSKASVQFVDYNKRQMSRIY
PKGTRMDSSNYMPQMFWNAGCQMVALNFQTMDLPMQQNMAVFEFNGQSGYLLKHEFMRRPDKQFNPFSVDRIDVV
VATTLSITVISGQFLSERSVRTYVEVELFGLPGDPKRRYRTKLSPSTNSINPVWKEEPFVFEKILMPELASLRVA
VMEEGNKFLGHRIIPINALNSGYHHLCLHSESNMPLTMPALFIFLEMKDYIPGAWADLTVALANPIKFFSAHDTK
SVKLKEAMGGLPEKPFPLASPVASQVNGALAPTSNGSPAARAGAREEAMKEAAEPRTASLEELRELKGVVKLQRR
HEKELRELERRGARRWEELLQRGAAQLAELGPPGVGGVGACKLGPGKGSRKKRSLPREESAGAAPGEGPEGVDGR
VRELKDRLELELLRQGEEQYECVLKRKEQHVAEQISKMMELAREKQAAELKALKETSENDTKEMKKKLETKRLER
IQGMTKVTTDKMAQERLKREINNSHIQEVVQVIKQMTENLERHQEKLEEKQAACLEQIREMEKQFQKEALAEYEA
RMKGLEAEVKESVRACLRTCFPSEAKDKPERACECPPELCEQDPLIAKADAQESRL

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FIGURE 4143

ATGTTCCCCCGCCCGCTGACCCCGCTGGCGGCCCCAAATGGCGCCGAGCCCCTGGGCCGGGCGCTGAGGCGGGCC
CCTCTGGGCAGGGCCCGGGCGGGGCTGGGTGGGCCGCCCCTGCTGCTGCCGTCCATGCTGATGTTTGCGGTGATC
GTGGCCTCCAGCGGGCTGCTGCTCATGATCGAGCGGGGCATCCTGGCCGAGATGAAGCCCCTGCCCCTGCACCCG
CCCGGCCGCGAGGGCACAGCCTGGCGCGGGAAAGCCCCCAAGCCTGGGGGCCTGTCCCTCAGGGCTGGGGACGCG
GACTTGCAAGTGCGGCAGGACGTCCGGAACAGGACCCTGCGGGCGGTGTGCGGACAGCCAGGCATGCCCCGGGAC
CCCTGGGACTTGCCGGTGGGGCAGCGGCGCACCCTGCTGCGCCACATCCTCGTAAGTGACCGTTACCGCTTCCTC
TACTGCTACGTCCCCAAGGTGGCCTGCTCTAACTGGAAGCGGGTGATGAAGGTGCTGGCAGGCGTCCTGGACAGC
GTGGACGTCCGCCTCAAGATGGACCACCGCAGTGACCTGGTGTTCCTGGCCGACCTGCGGCCTGAGGAGATTCGC
TACCGCCTGCAGCACTACTTTAAGTTCCTGTTTGTGCGGGAGCCCTTGGAACGCCTCCTCTCTGCCTACCGCAAC
AAGTTTGGCGAGATCCGAGAGTACCAGCAACGCTATGGGGCTGAGATAGTGAGGCGGTACAGGGCTGGAGCGGGG
CCCAGCCCTGCAGGCGACGATGTCACATTCCCCGAGTTCCTGAGATACCTGGTGGATGAGGACCCTGAGCGCATG
AATGAGCATTGGATGCCCGTGTACCACCTGTGCCAGCCTTGTGCCGTGCACTATGACTTTGTGGGCTCCTATGAG
AGGCTGGAGGCTGATGCAAATCAGGTGCTGGAGTGGGTACGGGCACCACCTCACGTCCGATTCCAGCTCGCCAG
GCCTGGTACCGGCCAGCCAGCCCCGAAAGCCTGCATTACCACTTGTGCAGTGCCCCCCGGGCCCTGCTGCAGGAT
GTGCTGCCTAAGTATATCCTGGACTTCTCCCTCTTTGCCTACCCACTGCCTAATGTCACCAAGGAGGCGTGTCAG
CAGTGACCATGGGTGTGGGGCCAGCAGCTGGTGGGGACTGGTTTCAACGCCAGCTTTCTGTGCTTCTGCCTGTCA
TTCGGAGAAACTCTGGCTCTGGGGCTTGGGGCTTCTCAGGATCCTGGATGGCAGAGACTGCCCTCAGAAGTTCCT
TGTCCAGGGTGGGCACCCACAGTGACTCAGAGGACAGGGCTAGGCAGGAGACCTGCTGCTCCTCATTGGGGGGAT
CTCTTGGGGGGCAGACACCAGTTTGCCAATGAAGCAACACATCTGATCTAAAGACTGGCTCCAGACCCCGGGCTG
CCAGGATTATGCAGTCCACTTGGTCTACCTTAATTTAACCTGTGGCCAAACTCAGAGATGGTACCAGCCAGGGGC
AAGCATGACCAGAGCCAGGGACCCTGTGGCTCTGATCCCCCATTTATCCACCCCATGTGCCTCAGGACTAGAGTG
AGCAATCATACCTTATAAATGACTTTTGTGCCTTTCTGCTCCAGTCTCAAAATTCCTACACCTGCCAGTTCTTT
ACATTTTTCCAAGGAAAGGAAAACGGAAGCAGGGTTCTTGCCTGGTAGCTCCAGGACCCAGCTCTGCAGGCACCC
AAAGACCCTCTGTGCCCAGCCTCTTCCTTGAGTTCTCGGAACCTCCTCCCTAATTCTCCCTTCCTTCCCCACAAG
GCCTTTGAGGTTGTGACTGTGGCTGGTATATCTGGCTGCCATTTTTCTGATGCATTTATTTAAAATTTGTACTTT
TTGATAGAACCCTTGTAAGGGCTTTGTTTTCCTAATAGCTGACTTTTTAATAAAGCAGTTTTATATATAAAAAAA
AAAAAAAAAA

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FIGURE 4144

MFPRPLTPLAAPNGAEPLGRALRRAPLGRARAGLGGPPLLLPSMLMFAVIVASSGLLLMIERGILAEMKPLPLHP
PGREGTAWRGKAPKPGGLSLRAGDADLQVRQDVRNRTLRAVCGQPGMPRDPWDLPVGQRRTLLRHILVSDRYRFL
YCYVPKVACSNWKRVMKVLAGVLDSVDVRLKMDHRSDLVFLADLRPEEIRYRLQHYFKFLFVREPLERLLSAYRN
KFGEIREYQQRYGAEIVRRYRAGAGPSPAGDDVTFPEFLRYLVDEDPERMNEHWMPVYHLCQPCAVHYDFVGSYE
RLEADANQVLEWVRAPPHVRFPARQAWYRPASPESLHYHLCSAPRALLQDVLPKYILDFSLFAYPLPNVTKEACQ
Q

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FIGURE 4145

ATGTGGCTGGACCGCCGCGGATGGCTCAGGGTTCTTGGACATTGGCGCTACGACCTTAGGCGCCCTAGCTTTACC
AGGACTTGGAGTGGCGATAAGGGCCCAATGGCAGAAACAGTGTCTACCCAGGTTGGGACAGAGGGCGGGCTGAGG
GCTTCGCATCAGCAAAACGGTGACGCTGGTGGCGACGCGAAGGTTGAGCTGTCCCCCGGGCCCCCGAAGCCGGCT
GGCCGGGAAGTGGAGCCGGCCCCAGTAGGCGGGGAGCATCCCTCGGCTGCAGCCCCAGGCCCGGGCAAGCATAAG
AAGCGGCGGGGCGCAACCAGGGAGCGTGTCGTGCCGCCCCCGAAGAAGCGGCGGACCGGGGTGAGCTTCGGAGAT
GAGCACTTTGCAGAAACCAGTTATTACTTCGAGGGCGGCCTGCGTAAGGTGCGGCCCTATTACTTTGACTTCCGG
ACCTACTGCAAAGGTCGCTGGGTGGGCCACAGCTTGCTGCACGTCTTCAGTACCGAGTTCCGAGCTCAGCCCCTG
GCCTACTATGAGGCCGCGGTCCGGGCGGGCCGCCTGCAACTCAACGAGAAGCCGGTGCAGGACCTCAACATCGTG
CTCAAGGACAATGATTTCTTGCGGAACACAGTGCACAGGCATGAGCCACCAGTCACAGCAGAGCCCATTCGCCTG
CTAGCTGAGAACGAAGATGTGGTGGTTGTAGACAAGCCTTCCTCCATTCCCGTTCACCCCTGTGGCCGCTTCCGA
CACAACACAGTTATCTTCATCCTAGGCAAGGAGCACCAACTCAAGGAGCTACACCCCTTGCATCGGCTTGACCGC
CTTACCTCAGGGGTGCTTATGTTTGCCAAGACAGCTGCAGTCTCTGAGAGAATTCACGAGCAGGTTCGGGACCGG
CAGCTGGAGAAGGAGTACGTGTGCCGGGTGGAAGGGGAGTTCCCCACTGAGGAAGTGACCTGTAAAGAACCCATC
TTAGTGGTGTCTTACAAAGTAGGGGTGTGCCGTGTAGATCCCCGGGGCAAGCCCTGTGAGACAGTGTTCCAGAGG
CTAAGCTACAATGGCCAGTCCAGTGTGGTACGGTGCCGGCCACTCACAGGCCGCACACACCAGATTCGAGTCCAC
CTTCAGTTCTTGGGCCATCCCATTCTCAACGACCCCATCTACAACTCAGTTGCCTGGGGTCCTTCTCGAGGCCGG
GGCGGCTACATTCCCAAGACAAACGAGGAGTTGCTACGGGACCTGGTAGCAGAGCACCAGGCCAAACAGAGCCTG
GATGTGCTAGATCTCTGTGAGGGTGACCTGTCCCCAGGACTCACAGACTCTACGGCCCCCTCCTCAGAGTTGGGC
AAGGACGACCTGGAAGAGTTGGCTGCAGCTGCCCAGAAGATGGAGGAAGTAGCTGAGGCAGCCCCTCAGGAGTTG
GACACAATAGCCTTGGCATCAGAGAAGGCAGTTGAAACAGATGTCATGAATCAAGAGACAGACCCACTCTGTGCA
GAGTGCCGGCTGGTGCGACAGGATCCCTTGCCCCAAGACCTTGTGATGTTCCTACATGCCCTACGCTATAAAGGG
CCAGGCTTTGAGTACTTTTCACCAATGCCTGCCTGGGCACAGGATGACTGGCAAAAGGACTGA

FIGURE 4146

MWLDRRGWLRVLGHWRYDLRRPSFTRTWSGDKGPMAETVSTQVGTEGGLRASHQQNGDAGGDAKVELSPGPPKPA
GREVEPAPVGGEHPSAAAPGPGKHKKRRGATRERVVPPPKKRRTGVSFGDEHFAETSYYFEGGLRKVRPYYFDFR
TYCKGRWVGHSLLHVFSTEFRAQPLAYYEAAVRAGRLQLNEKPVQDLNIVLKDNDFLRNTVHRHEPPVTAEPIRL
LAENEDVVVVDKPSSIPVHPCGRFRHNTVIFILGKEHQLKELHPLHRLDRLTSGVLMFAKTAAVSERIHEQVRDR
QLEKEYVCRVEGEFPTEEVTCKEPILVVSYKVGVCRVDPRGKPCETVFQRLSYNGQSSVVRCRPLTGRTHQIRVH
LQFLGHPILNDPIYNSVAWGPSRGRGGYIPKTNEELLRDLVAEHQAKQSLDVLDLCEGDLSPGLTDSTAPSSELG
KDDLEELAAAAQKMEEVAEAAPQELDTIALASEKAVETDVMNQETDPLCAECRLVRQDPLPQDLVMFLHALRYKG
PGFEYFSPMPAWAQDDWQKD

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FIGURE 4147

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TAAGGAGAGTGCGGCGCTTCCCGAGGCGTGCAGCTGGGAACTGCAACTCATCTGGGTTGTGCGCAGAAGGCTGGG
GCAAGCGAGTAGAGAAGTGGAGCGTAAGCCAGGGGCGTTGGGGGCCGTGCGGGTCGGGCGCGTGCCACGCCCGCG
GGGTGAAGTCGGAGCGCGGGGCCTGCTGGAGAGAGGAGCGCTGCGGACCGAGTAATGGCAATGCAGATGCAGCTT
GAAGCAAATGCAGATACTTCAGTGGAAGAAGAAAGCTTTGGCCCACAACCCATTTCACGGTTAGAGCAGTGTGGC
ATAAATGCCAACGATGTGAAGAAATTGGAAGAAGCTGGATTCCATACTGTGGAGGCTGTTGCCTATGCGCCAAAG
AAGGAGCTAATAAATATTAAGGGAATTAGTGAAGCCAAAGCTGATAAAATTCTGGCTGAGGCAGCTAAATTAGTT
CCAATGGGTTTCACCACTGCAACTGAATTCCACCAAAGGCGGTCAGAGATCATACAGATTACTACTGGCTCCAAA
GAGCTTGACAAACTACTTCAAGGTGGAATTGAGACTGGATCTATCACAGAAATGTTTGGAGAATTCCGAACTGGG
AAGACCCAGATCTGTCATACGCTAGCTGTCACCTGCCAGCTTCCCATTGACCGGGGTGGAGGTGAAGGAAAGGCC
ATGTACATTGACACTGAGGGTACCTTTAGGCCAGAACGGCTGCTGGCAGTGGCTGAGAGGTATGGTCTCTCTGGC
AGTGATGTCCTGGATAATGTAGCATATGCTCGAGCGTTCAACACAGACCACCAGACCCAGCTCCTTTATCAAGCA
TCAGCCATGATGGTAGAATCTAGGTATGCACTGCTTATTGTAGACAGTGCCACCGCCCTTTACAGAACAGACTAC
TCGGGTCGAGGTGAGCTTTCAGCCAGGCAGATGCACTTGGCCAGGTTTCTGCGGATGCTTCTGCGACTCGCTGAT
GAGTTTGGTGTAGCAGTGGTAATCACTAATCAGGTGGTAGCTCAAGTGGATGGAGCAGCGATGTTTGCTGCTGAT
CCCAAAAAACCTATTGGAGGAAATATCATCGCCCATGCATCAACAACCAGATTGTATCTGAGGAAAGGAAGAGGG
GAAACCAGAATCTGCAAAATCTACGACTCTCCCTGTCTTCCTGAAGCTGAAGCTATGTTCGCCATTAATGCAGAT
GGAGTGGGAGATGCCAAAGACTGAATCATTGGGTTTTTCCTCTGTTAAAAACCTTAAGTGCTGCAGCCTAATGAG
AGTGCACTGCTCCCTGGGGTTCTCTACAGGCCTCTTCCTGTTGTGACTGCCAGGATAAAGCTTCCGGGAAAACAG
CTATTATATCAGCTTTTCTGATGGTATAAACAGGAGACAGGTCAGTAGTCACAAACTGATCTAAAATGTTTATTC
CTTCTGTAGTGTATTAATCTCTGTGTGTTTTCTTTGGTTTTGGAGGAGGGGTATGAAGTATCTTTGACATGGTGC
CTTAGGAATGACTTGGGTTTAACAAGCTGTCTACTGGACAATCTTATGTTTCCAAGAGAACTAAAGCTGGAGAGA
CCTGACCCTTCTCTCACTTCTAAATTAATGGTAAAATAAAATGCCTCAGCTATGTAGCAAGG
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FIGURE 4148

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GGCACGAGGCAGGCCAGGTGTGTGCGTCCGTCGGTCTTTCCGTGCCCACGCCGGAGACCAGCCCCGGAGGCCGCC
TGGGCCTATCCCTGTGCCAGGCACCATGAAGCAGGAGTCTGCAGCCCCGAACACCCCGCCCACCTCGCAGTCCCC
TACGCCGTCCGCTCAGTTCCCCCGAAACGACGGCGACCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGT
GTGGAGGCCCGACTTCGCCTACAGCGACAGCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCCGTTTCTGGCAGGG
AGACACCTTCCATCGGGGCAGCGACAAGATGCCTGGCCGTGTGGTGACGCTCCTTGAAGATCATGAGGGCTGCAC
TTGGGGCGTGGCATACCAAGTGCAAGGGGAGCAGGTAAGCAAGGCCCTGAAGTACCTGAATGTGCGAGAGGCAGT
GCTTGGTGGCTACGATACCAAGGAGGTCACCTTCTATCCCCAAGATGCTCCTGACCAACCACTGAAGGCATTGGC
CTATGTGGCCACCCCACAGAACCCTGGTTACCTGGGCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGGC
CTGCCGGGGCTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGGGCCTCA
GGCGCAGGACGAGCACCTGGCAGCCATCGTGGACGCTGTGGGCACCATGTTGCCCTGCTTCTGCCCCACCGAGCA
GGCTCTGGCGCTGGTGTGAGGGGCTGAGCCCCTGCGGGGAGTGCTCATGTGGACATCAGGGCCAGACACCCACTC
CAGTGCACAAGACAGACTTGCGACCGCTTGAGCCCACTGAGCAGATATGGTGGGTGGCTGGAGGCTTCTCTTTCT
CAGTCCCTGCCTGTCTGCCAGCCTGCAGCTCTCCTGCTTGACACTGACTTACTACTTGAAACTTTATTTATTGCA
CCATGTTGGTGTGGTGGGCAGGTGGAGGGCCTGCCCTGGACACAGGGGCCCTGCTGAGCAGTGGCCCCATCCTGG
AACTTGACCAGATTCCCCCCAGTGCTGCTGCTAACCCCACACCACCCAGGCCTCCACCTCCCCAGGGAGTCTCCA
AGAGCCTCGATCCTCTGCTCACTCAGCCCAGCCATCCATAGCCCTGGGAATTCCACCTGCCAAGGATCCCAGCAG
GCTGGATGAGGGATAGTAGGGCATGAGGAGAAGGAGCCCTGTAAGGACTGAGGCCCCGGCCAGCCCTTCTCCTCC
ACCAGTTCCCCAGAGCAGAGCTGGAGCTGATGCCTGGACACAGCTGCTGAGCCTGGCCTGGGCCTCTTACCCACT
TGGTTGTTTTCTTGTCCCTCTGTCTGTCTGTCTATCTACTTGTCTGTCTGGGCCACTCCTGCCTGTGTGTTGGTC
TATTCCTGGGAAGCTCATCACTACAGGCCCTGGCAACCTTCCCAGTCTGTCCCATACTGTTACCCATAAAACTAT
CTCTTTAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 4149

MKQESAAPNTPPTSQSPTPSAQFPRNDGDPQALWIFGYGSLVWRPDFAYSDSRVGFVRGYSRRFWQGDTFHRGSD
KMPGRVVTLLEDHEGCTWGVAYQVQGEQVSKALKYLNVREAVLGGYDTKEVTFYPQDAPDQPLKALAYVATPQNP
GYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGPQAQDEHLAAIVDAVGTMLPCFCPTEQALALV

FIGURE 4150

AGGCCACAGGGCATGGATCAGCCCCACTGCATCTCAAGTGAACTGTATAGCCAAGTCTTAAACCTCTCACGGGGC
AAGCCTGACACAGACCCCCTTTAGATGCTCAGGCATACTGTTTCCATCCCGATTCCACTCTTCGGCTCTGACACG
TCCCTTGCAAAGTCTCCGCAGGTGCTGTGAAGAGCCTTCC<u>ATG</u>GTAGAGATTTCTCTTAAGAGTGTGATTTCTCA
TAGGGCTAGTAAGGGAGATTGTATACCTGTTGTCCACAGTCTTCAGGCAGCTCCCCAGGTCTCTGAACCCCAGAG
TGTCGTCATTGGAGAGAGCAGTGACTGCGAGAGATGGTGGAGGCCGCTAAGCATGGTAGAGGCTAGAGGAAGTCT
ATCCACAGGCAGTTGTGTTCCCAGCAATTCCTCCCATCCTGCATGGTTCACACCAAGAGAACCTTCAGATCCTAC
CAGCAACCGTAGCACCTTCCACCCAGGGGACTCCCAGAAGCCAGTAAAGAGACCAGGAGCCACCTCAATCAGCAG
GACAGCCTCACTGCCCCTCTTGCAGAGTCCCCTTTGCCCATCC<u>TGA</u>ATGCACAGTCTCCCTGCTCATGCCCTTCA
GTCCCCTGCTTGGCTGTATGCACTGTCTATATTGCACTGAGAGAGGAAGGGACAGCAGGAGTGAGGTGAAGAGGG
CGGAGAGAGGGGGCAGGCTCGGCACCGGCCCTCCCAGCCCGGCCAGCCTGAGCTTGCTGCCCTCCAGTAGAGACA
GAGGGGCAGTGTTTGCAAGGGAGGTGTTTCTGCCTGTCCCTGCCTGATGTCCCTGGTGGAGCAGGTACCTCCGGG
CGGGCAAGCCTCTGATTTGCACACCTGAAAATCGCGGAATTGAGTTTCGATAGATTGATTTTTAAAACTTTTTTG
GAGTAGGGGGTATAGGGGAATCATTTAATTTAAATCATTAAGATTCCCCTGCTCAAACCCAGATTCCTGTGTACA
GATGCTATTTAGAGGGAATCAGAAAAATGCCAAGCCTTTTCTCTTTGAATGTGCTATTTTTATAACTGAACTTGT
ACATATGTATAAAGAGAGACACATCTTCCTTTTACTAACTGGATAAAAAAATCTTAAATAAAATGGAGTGAGATA
ATTTTAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4151

MVEISLKSVISHRASKGDCIPVVHSLQAAPQVSEPQSVVIGESSDCERWWRPLSMVEARGSLSTGSCVPSNSSHP
AWFTPREPSDPTSNRSTFHPGDSQKPVKRPGATSISRTASLPLLQSPLCPS

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FIGURE 4152

GGGATTTGAACCXCGCTGACGAAGTTTGGTGATCCATCTTCCGAGTATCGCCGGGATTTCGAATCGCGATGATCA
TCCCCTCTCTAGAGGAGCTGGACTCCCTCAAGTACAGTGACCTGCAGAACTTAGCCAAGAGTCTGGGTCTCCGGG
CCAACCTGAGGGCAACCAAGTTGTTAAAAGCCTTGAAAGGCTACATTAAACATGAGGCAAGAAAAGGAAATGAGA
ATCAGGATGAAAGTCAAACTTCTGCATCCTCTTGTGATGAGACTGAGATACAGATCAGCAACCAGGAAGAAGCTG
AGAGACAGCCACTTGGCCATGTCACCAAAACAAGGAGAAGGTGCAAGACTGTCCGTGTGGACCCTGACTCACAGC
AGAATCATTCAGAGATAAAAATAAGTAATCCCACTGAATTCCAGAATCATGAAAAGCAGGAAAGCCAGGATCTCA
GAGCTACTGCAAAAGTTCCTTCTCCACCAGACGAGCACCAAGAAGCTGAGAATGCTGTTTCCTCAGGTAACAGAG
ATTCAAAGGTACCTTCAGAAGGAAAGAAATCTCTCTACACAGATGAGTCATCCAAACCTGGAAAAAATAAAAGAA
CTGCAATCACTACTCCAAACTTTAAGAAGCTTCATGAAGCTCATTTTAAGGAAATGGAGTCCATTGATCAATATA
TTGAGAGAAAAAGAAACATTTTGAAGAACACAATTCC<u>ATG</u>AATGAACTGAAGCAGCAGCCCATCAATAAGGGAGG
GGTCAGGACTCCAGTACCTCCAAGAGGAAGACTCTCTGTGGCTTCTACTCCCATCAGCCAACGACGCTCGCAAGG
CCGGTCTTGTGGCCCTGCAAGTCAGAGTACCTTGGGTCTGAAGGGGTCACTCAAGCGCTCTGCTATCTCTGCAGC
TAAAACGGGTGTCAGGTTTTCAGCTGCTACTAAAGATAATGAGCATAAGCGTTCACTGACCAAGACTCCAGCCAG
AAAGTCTGCACATGTGACCGTGTCTGGGGGCACCCCAAAAGGCGAGGCTGTGCTTGGGACACACAAATTAAAGAC
CATCACGGGGAATTCTGCTGCTGTTATTACCCCATTCAAGTTGACAACTGAGGCAACGCAGACTCCAGTCTCCAA
TAAGAAACCAGTGTTTGATCTTAAAGCAAGTTTGTCTCGTCCCCTCAACTATGAACCACACAAAGGAAAGCTAAA
ACCATGGGGGCAATCTAAAGAAAATAATTATCTAAATCAACATGTCAACAGAATTAACTTCTACAAGAAAACTTA
CAAACAACCCCATCTCCAGACAAAGGAAGAGCAACGGAAGAAACGCGAGCAAGAACGAAAGGAGAAGAAAGCAAA
GGTTTTGGGAATGCGAAGGGGCCTCATTTTGGCTGAAGAT<u>TAA</u>TAATTTTTTAATATCTTGTAAATATTCCTGTA
TTCTCAACTTTTTTCCTTTTGTAAATTTTTTTTTTTTGCTGTCATCCCCACTTTAGTCACGAGATCTTTTTCTG
CTAACTGTTCATAGTCTGTGTAGTGTCCATGGGTTCTTCATGTGCTATGATCTCTGAAAAGACGTTATCACCTTA
AAGCTCAAATTCTTTGGGATGGTTTTTACTTAAGTCCATTAACAATTCAGGTTTCTAACGAGACCCATCCTAAAA
TTCTGTTTCTAGATTTTTAATGTCAAGTTCCCAAGTTCCCCCTGCTGGTTCTAATATTAACAGAACTGCAGTCTT
CTGCTAGCCAATAGCATTTACCTGATGGCAGCTAGTTATGCAAGCTTCAGGAGAATTTGAACAATAACAAGAATA
GGGTAAGCTGGGATAGAAAGGCCACCTCTTCACTCTCTATAGAATATAGTAACCTTTATGAAACGGGGCCATATA
GTTTGGTTATGACATCAATATTTTACCTAGGTGAAATTGTTAGGCTTATGTACCTTCGTTCAAATATCCTCATG
TAATTGCCATCTGTCACTCACTATATTCACAAAAATAAAACTCTACAACTCATTCTAACATTGCTTACTTAAAAG
CTACATAGCCCTATCGAAATGCGAGGATTAATGCTTTAATGCTTTTAGAGACAGGGTCTCACTGTGTTGCCCAGG
CTGGTCTCAAACTCCACCAAATGTACTTCTTATTCATTTATGGAAAAGACTAGGCTTTGCTTAGTATCATGTCC
ATGTTTCCTTCACCTCAGTGGAGCTTCTGAGTTTTATACTGCTCAAGATCGTCATAAATAAAATTTTTTCTCATT
GTCAAAAAAAAAAAAAAA

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FIGURE 4153

MNELKQQPINKGGVRTPVPPRGRLSVASTPISQRRSQGRSCGPASQSTLGLKGSLKRSAISAAKTGVRFSAATKD
NEHKRSLTKTPARKSAHVTVSGGTPKGEAVLGTHKLKTITGNSAAVITPFKLTTEATQTPVSNKKPVFDLKASLS
RPLNYEPHKGKLKPWGQSKENNYLNQHVNRINFYKKTYKQPHLQTKEEQRKKREQERKEKKAKVLGMRRGLILAE
D

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FIGURE 4154

ATGATCATCCCCTCTCTAGAGGAGCTGGACTCCCTCAAGTACAGTGACCTGCAGAACTTAGCCAAGAGTCTGGGT
CTCCGGGCCAACCTGAGGGCAACCAAGTTGTTAAAAGCCTTGAAAGGCTACATTAAACATGAGGCAAGAAAAGGA
AATGAGAATCAGGATGAAAGTCAAACTTCTGCATCCTCTTGTGATGAGACTGAGATACAGATCAGCAACCAGGAA
GAAGCTGAGAGACAGCCACTTGGCCATGTCACCAAAACAAGGAGAAGGTGCAAGACTGTCCGTGTGGACCCTGAC
TCACAGCAGAATCATTCAGAGATAAAAATAAGTAATCCCACTGAATTCCAGAATCATGAAAAGCAGGAAAGCCAG
GATCTCAGAGCTACTGCAAAAGTTCCTTCTCCACCAGACGAGCACCAAGAAGCTGAGAATGCTGTTTCCTCAGGT
AACAGAGATTCAAAGGTACCTTCAGAAGGAAAGAAATCTCTCTACACAGATGAGTCATCCAAACCTGGAAAAAAT
AAAAGAACTGCAATCACTACTCCAAACTTTAAGAAGCTTCATGAAGCTCATTTTAAGGAAATGGAGTCCATTGAT
CAATATATTGAGAGAAAAAAGAAACATTTTGAAGAACACAATTCCATGAATGAACTGAAGCAGCCCATCAATAAG
GGAGGGGTCAGGACTCCAGTACCTCCAAGAGGAAGACTCTCTGTGGCTTCTACTCCCATCAGCCAACGACGCTCG
CAAGGCCGGTCTTGTGGCCCTGCAAGTCAGAGTACCTTGGGTCTGAAGGGGTCACTCAAGCGCTCTGCTATCTCT
GCAGCTAAAACGGGTGTCAGGTTTTCAGCTGCTACTAAAGATAATGAGCATAAGCGTTCACTGACCAAGACTCCA
GCCAGAAAGTCTGCACATGTGACCGTGTCTGGGGGCACCCCAAAAGGCGAGGCTGTGCTTGGGACACACAAATTA
AAGACCATCACGGGGAATTCTGCTGCTGTTATTACCCCATTCAAGTTGACAACTGAGGCAACGCAGACTCCAGTC
TCCAATAAGAAACCAGTGTTTGATCTTAAAGCAAGTTTGTCTCGTCCCCTCAACTATGAACCACACAAAGGAAAG
CTAAAACCATGGGGGCAATCTAAAGAAAATAATTATCTAAATCAACATGTCAACAGAATTAACTTCTACAAGAAA
ACTTACAAACAACCCCATCTCCAGACAAAGGAAGAGCAACGGAAGAAACGCGAGCAAGAACGAAAGGAGAAGAAA
GCAAAGGTTTTGGGAATGCGAAGGGGCCTCATTTTGGCTGAAGATTAA

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FIGURE 4155

MIIPSLEELDSLKYSDLQNLAKSLGLRANLRATKLLKALKGYIKHEARKGNENQDESQTSASSCDETEIQISNQE
EAERQPLGHVTKTRRRCKTVRVDPDSQQNHSEIKISNPTEFQNHEKQESQDLRATAKVPSPPDEHQEAENAVSSG
NRDSKVPSEGKKSLYTDESSKPGKNKRTAITTPNFKKLHEAHFKEMESIDQYIERKKKHFEEHNSMNELKQPINK
GGVRTPVPPRGRLSVASTPISQRRSQGRSCGPASQSTLGLKGSLKRSAISAAKTGVRFSAATKDNEHKRSLTKTP
ARKSAHVTVSGGTPKGEAVLGTHKLKTITGNSAAVITPFKLTTEATQTPVSNKKPVFDLKASLSRPLNYEPHKGK
LKPWGQSKENNYLNQHVNRINFYKKTYKQPHLQTKEEQRKKREQERKEKKAKVLGMRRGLILAED

FIGURE 4156A

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CCCCGCCCTCCTCCCTCCTCGCTCGCGGGCCGGGCCCGGCATGGTGCGGCGTCGCCGCCGATGGCGCTGAGGCGG
AGCATGGGGCGGCCGGGGCTCCCGCCGCTGCCGCTGCCGCCGCCACCGCGGCTCGGGCTGCTGCTGGCGGCTCTG
GCTTCTCTGCTGCTCCCGGAGTCCGCCGCCGCAGGTCTGAAGCTCATGGGAGCCCCGGTGAAGCTGACAGTGTCT
CAGGGGCAGCCGGTGAAGCTCAACTGCAGTGTGGAGGGGATGGAGGAGCCTGACATCCAGTGGGTGAAGGATGGG
GCTGTGGTCCAGAACTTGGACCAGTTGTACATCCCAGTCAGCGAGCAGCACTGGATCGGCTTCCTCAGCCTGAAG
TCAGTGGAGCGCTCTGACGCCGGCCGGTACTGGTGCCAGGTGGAGGATGGGGGTGAAACCGAGATCTCCCAGCCA
GTGTGGCTCACGGTAGAAGGTGTGCCATTTTTCACAGTGGAGCCAAAAGATCTGGCAGTGCCACCCAATGCCCCT
TTCCAACTGTCTTGTGAGGCTGTGGGTCCCCCTGAACCTGTTACCATTGTCTGGTGGAGAGGAACTACGAAGATC
GGGGGACCCGCTCCCTCTCCATCTGTTTTAAATGTAACAGGGGTGACCCAGAGCACCATGTTTTCCTGTGAAGCT
CACAACCTAAAAGGCCTGGCCTCTTCTCGCACAGCCACTGTTCACCTTCAAGCACTGCCTGCAGCCCCCTTCAAC
ATCACCGTGACAAAGCTTTCCAGCAGCAACGCTAGTGTGGCCTGGATGCCAGGTGCTGATGGCCGAGCTCTGCTA
CAGTCCTGTACAGTTCAGGTGACACAGGCCCCAGGAGGCTGGGAAGTCCTGGCTGTTGTGGTCCCTGTGCCCCCC
TTTACCTGCCTGCTCCGGGACCTGGTGCCTGCCACCAACTACAGCCTCAGGGTGCGCTGTGCCAATGCCTTGGGG
CCCTCTCCCTATGCTGACTGGGTGCCCTTTCAGACCAAGGGTCTAGCCCCAGCCAGCGCTCCCCAAAACCTCCAT
GCCATCCGCACAGATTCAGGCCTCATCTTGGAGTGGGAAGAAGTGATCCCCGAGGCCCCTTTGGAAGGCCCCCTG
GGACCCTACAAACTGTCCTGGGTTCAAGACAATGGAACCCAGGATGAGCTGACAGTGGAGGGGACCAGGGCCAAT
TTGACAGGCTGGGATCCCCAAAAGGACCTGATCGTACGTGTGTGCGTCTCCAATGCAGTTGGCTGTGGACCCTGG
AGTCAGCCACTGGTGGTCTCTTCTCATGACCGTGCAGGCCAGCAGGGCCCTCCTCACAGCCGCACATCCTGGGTA
CCTGTGGTCCTTGGTGTGCTAACGGCCCTGGTGACGGCTGCTGCCCTGGCCCTCATCCTGCTTCGAAAGAGACGG
AAAGAGACGCGGTTTGGGCAAGCCTTTGACAGTGTCATGGCCCGGGGAGAGCCAGCCGTTCACTTCCGGGCAGCC
CGGTCCTTCAATCGAGAAAGGCCCGAGCGCATCGAGGCCACATTGGACAGCTTGGGCATCAGCGATGAACTAAAG
GAAAAACTGGAGGATGTGCTCATCCCAGAGCAGCAGTTCACCCTGGGCCGGATGTTGGGCAAAGGAGAGTTTGGT
TCAGTGCGGGAGGCCCAGCTGAAGCAAGAGGATGGCTCCTTTGTGAAAGTGGCTGTGAAGATGCTGAAAGCTGAC
ATCATTGCCTCAAGCGACATTGAAGAGTTCCTCAGGGAAGCAGCTTGCATGAAGGAGTTTGACCATCCACACGTG
GCCAAACTTGTTGGGGTAAGCCTCCGGAGCAGGGCTAAAGGCCGTCTCCCCATCCCCATGGTCATCTTGCCCTTC
ATGAAGCATGGGGACCTGCATGCCTTCCTGCTCGCCTCCCGGATTGGGGAGAACCCCTTTAACCTACCCCTCCAG
ACCCTGATCCGGTTCATGGTGGACATTGCCTGCGGCATGGAGTACCTGAGCTCTCGGAACTTCATCCACCGAGAC
CTGGCTGCTCGGAATTGCATGCTGGCAGAGGACATGACAGTGTGTGTGGCTGACTTCGGACTCTCCCGGAAGATC
TACAGTGGGGACTACTATCGTCAAGGCTGTGCCTCCAAACTGCCTGTCAAGTGGCTGGCCCTGGAGAGCCTGGCC
GACAACCTGTATACTGTGCAGAGTGACGTGTGGGCGTTCGGGGTGACCATGTGGGAGATCATGACACGTGGGCAG
ACGCCATATGCTGGCATCGAAAACGCTGAGATTTACAACTACCTCATTGGCGGGAACCGCCTGAAACAGCCTCCG
GAGTGTATGGAGGACGTGTATGATCTCATGTACCAGTGCTGGAGTGCTGACCCCAAGCAGCGCCCGAGCTTTACT
TGTCTGCGAATGGAACTGGAGAACATCTTGGGCCAGCTGTCTGTGCTATCTGCCAGCCAGGACCCCTTATACATC
AACATCGAGAGAGCTGAGGAGCCCACTGCGGGAGGCAGCCTGGAGCTACCTGGCAGGGATCAGCCCTACAGTGGG
GCTGGGGATGGCAGTGGCATGGGGGCAGTGGGTGGCACTCCCAGTGACTGTCGGTACATACTCACCCCCGGAGGG
CTGGCTGAGCAGCCAGGGCAGGCAGAGCACCAGCCAGAGAGTCCCCTCAATGAGACACAGAGGCTTTTGCTGCTG
CAGCAAGGGCTACTGCCACACAGTAGCTGTTAGCCCACAGGCAGAGGGCATCGGGGCCATTTGGCCGGCTCTGGT
GGCCACTGAGCTGGCTGACTAAGCCCCGTCTGACCCCAGCCCAGACAGCAAGGTGTGGAGGCTCCTGTGGTAGTC
CTCCCAAGCTGTGCTGGGAAGCCCGGACTGACCAAATCACCCAATCCCAGTTCTTCCTGCAACCACTCTGTGGCC
AGCCTGGCATCAGTTTAGGCCTTGGCTTGATGGAAGTGGGCCAGTCCTGGTTGTCTGAACCCAGGCAGCTGGCAG
GAGTGGGGTGGTTATGTTTCCATGGTTACCATGGGTGTGGATGGCAGTGTGGGGAGGGCAGGTCCAGCTCTGTGG
GCCCTACCCTCCTGCTGAGCTGCCCCTGCTGCTTAAGTGCATGCATTGAGCTGCCTCCAGCCTGGTGGCCCAGCT
ATTACCACACTTGGGGTTTAAATATCCAGGTGTGCCCCTCCAAGTCACAAAGAGATGTCCTTGTAATATTCCCTT
TTAGGTGAGGGTTGGTAAGGGGTTGGTATCTCAGGTCTGAATCTTCACCATCTTTCTGATTCCGCACCCTGCCTA
CGCCAGGAGAAGTTGAGGGGAGCATGCTTCCCTGCAGCTGACCGGGTCACACAAAGGCATGCTGGAGTACCCAGC
CTATCAGGTGCCCCTCTTCCAAAGGCAGCGTGCCGAGCCAGCAAGAGGAAGGGGTGCTGTGAGGCTTGCCCAGGA
GCAAGTGAGGCCGGAGAGGAGTTCAGGAACCCTTCTCCATACCCACAATCTGAGCACGCTACCAAATCTCAAAAT
ATCCTAAGACTAACAAAGGCAGCTGTGTCTGAGCCCAACCCTTCTAAACGGTGACCTTTAGTGCCAACTTCCCCT
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FIGURE 4156B

CTAACTGGACAGCCTCTTCTGTCCCAAGTCTCCAGAGAGAAATCAGGCCTGATGAGGGGGAATTCCTGGAACCTG
GACCCCAGCCTTGGTGGGGGAGCCTCTGGAATGCATGGGGCGGGTCCTAGCTGTTAGGGACATTTCCAAGCTGTT
AGTTGCTGTTTAAAATAGAAATAAAATTGAAGACTAAAGACCTA

4509/6881

FIGURE 4157

ATGAATAAAACTGACAAAAATCCTTGCTTTCAGAAATTTGTCATTGCCATCTCAACCAAAACTGGCATTAGCAAT
GTAAAAATCCCAAAACATCTTATTGATGCTCACTTCGAGAAGCAGTTGCAGAAGCCCAGACACCAGGAAGGTGAG
ATCTCTGACACAGAAAAAGAGAACTACAAGACTACAGAGCAGTGCAAGATTGATCAGAAAGCTGTGGACTCACAA
ATTGTACGAAAAATCAAAGCTATTCCTCAGCTCCAGGGCTACCTGCGATCTGTGTTTGCCCTGACGAATGGAATT
TATCCTCACAAATTGGTGTTTTAA

4510/6881
FIGURE 4158

MNKTDKNPCFQKFVIAISTKTGISNVKIPKHLIDAHFEKQLQKPRHQEGEISDTEKENYKTTEQCKIDQKAVDSQ
IVRKIKAIPQLQGYLRSVFALTNGIYPHKLVF

FIGURE 4159

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GGGAGAGTCGAACCCGGAGCAGGGTCCCATCCGAGCGTGGACTGGCGGCAGGATGTTCAGCTGGATGGGGCGGCA
GGCGGGCGGGCGCGAACGCGCTGGCGGCGCGGACGCGGTGCAGACGGTGACGGGCGGGCTGCGCTCGCTCTACCT
GCGCAAGGTGCTGCCGCTGGAGGAGGCGTACCGCTTCCACGAGTTCCACTCGCCTGCGCTGGAGGACGCCGACTT
CGAGAACAAGCCCATGATCCTGCTGGTGGGCCAGTACAGCACCGGCAAGACCACCTTCATCAGATACCTACTGGA
GCAGGATTTCCCAGGCATGAGGATTGGTCCGGAGCCCACCACAGACTCCTTCATCGCCGTGATGTATGGAGAGAC
TGAGGGCAGCACCCCAGGGAATGCTTTAGTCGTGGACCCCAAAAAGCCGTTTAGAAAGCTCAGTCGCTTTGGAAA
CGCTTTCCTGAATCGATTCATGTGCTCACAGCTCCCCAATCAGGTCCTGAAGAGCATCAGCGTCATCGACAGCCC
CGGCATCCTTTCTGGGGAGAAGCAGCGCATCAGCCGAGGCTATGACTTCTGCCAGGTCCTGCAGTGGTTTGCCGA
GAGGGTGGACAGGATCATCCTGCTCTTTGACGCTCACAAGCTGGACATCTCAGATGAATTCTCAGAGGCCATCAA
GGCCTTCCGGGGCCAGGACGACAAGATCCGTGTCGTGCTGAACAAGGCCGACCAAGTGGACACGCAGCAGCTGAT
GCGGGTCTACGGGGCCCTCATGTGGTCCCTAGGCAAGGTCATCAACACGCCCGAGGTACTGCGCGTCTACATTGG
CTCCTTCTGGGCGCAGCCCCTGCAGAACACGGACAACCGCCGGCTCTTCGAGGCTGAGGCCCAGGACCTCTTTAG
AGACATCCAGAGCCTCCCCCAGAAGGCAGCGGTGCGCAAGCTCAACGACCTCATCAAGCGAGCGAGGCTGGCCAA
GGTGCATGCCTACATCATCAGCTACCTGAAGAAGGAGATGCCAAGTGTATTTGGAAAGGAAAACAAGAAGAGAGA
GCTTATCAGCAGGCTACCGGAAATCTACATTCAGCTACAGCGAGAATACCAGATTTCTGCAGGGGACTTCCCTGA
GGTCAAGGCTATGCAGGAACAGCTTGAGAACTATGACTTCACCAAATTCCACTCGCTGAAGCCCAAGCTGATCGA
GGCAGTGGACAACATGCTGAGCAACAAGATCTCGCCCCTCATGAACCTCATCAGCCAGGAGGAGACGAGCACGCC
CACGCAGCTGGTGCAGGGCGGCGCCTTCGATGGCACCACCGAGGGCCCCTTCAACCAGGGCTACGGGGAGGGTGC
CAAGGAGGGCGCCGACGAGGAGGAGTGGGTCGTGGCCAAAGACAAGCCCGTCTACGACGAGCTCTTCTACACTCT.
GTCGCCCATCAATGGCAAGATATCAGGTGTCAACGCCAAGAAGGAGATGGTGACCTCCAAGCTGCCCAACAGCGT
CCTGGGCAAGATCTGGAAGCTGGCCGACTGCGACTGCGACGGCATGCTTGATGAGGAGGAGTTCGCGCTGGCCAA
GCACCTCATCAAGATCAAGCTCGACGGCTACGAGCTGCCCAGCAGCCTGCCCCCCCCACCTCGTGCCCCCCTCGCA
CAGGAAGTCCCTGCCCAAGGCCGACTGAGGGGTGGGCTGCAGAACGGGGTGGGAACTGGGGGACCTGGGCCTCAG
GCCTGCTCCACCACTGACTCACCGAATGACCTTGGGCAAGGCACTGCCCTCTCTGTGCCTTGGTTTCCCCATCTG
TAGAATGGGGAGGGTGGACACTGGAAACTAGATGACTTCTTTCACCTCCAAAATTCCCTTAGTTTCTATGAAAAT
ATTGGGGGTAGGGGGGTGGATTAGGAGATTGAAGGGTTGAGAAGAAAGAGAAATTGTCCAAAGAGTCCTCAGAAC
CTGCCTGGAGAAATGCGCATGGGGGTGGGCCTGGTAAGTCCCAGGAACCACAGGAAGTGAGCTAAGGCTCACCCA
GAGCAGCTGGGTCTCCAGGCTGCCTGGGCTTTTTGTCCTCATGAACAACTCTGGAGCAGCTGTCTGTCCCTCAGA
GGGCACCTGGAGGCAGCAAAGATTATCTTATTTATTTTATTTTGTTTTCTGCTATATTTAGAGTGGCAAAAAAAT
AGAGCAGAGGGTTTCTGCTGTCTCCAGACTGTCTACCAAAGAGAAGGCGACAGATGCCTCCTGGGTTTGGAAGGG
GGATGCACTGTGGATCTGCCATCCATTCTGCAGTCTCCAGCAGAGCAGGCAGTCAGGCCCCAGCGTGCCTCCATC
CCAGTGCCCCGATGACCATCTGGTCAGCCCTCCCAACCTCCCTTCCAGGGGGCTTACCAGCAAAGCCATATTCGG
CTAGGAATTTGGAATTCACAACCTTTATTAACCCCTGGCAAAACTTCCCGTTTGCATGTCAAATCACATTGAAGC
CTGAAAATTAGCTTTTCTTACTGGTTTTTCCAATAAGTAATAGCAAAGCCCACTTATCATACTTAAACTACAGTA
AAGAAAGAGGTGGTTCTCTGCAGTGATCGTTTAGTGTGGCCCTCAAACATTAAATATCCCGAGGTCTCCTTGGT
GGGTGGCAGGATTTAAATTCAATCAAATCCTGTCCTAGTGTGTGCAGTGTCTTCGGCCCTGTGGACACAGGTGAA
TGAGGGACCAGCCCTGCCCTGGGCTGTTGAGAAGAGATCAGTCCACCCAGAGTTAGACATTGTTTTTGTAGAAAA
CAGGCATTTATTATGTCTAGGGTTTTGTGTTTTTTTTTTTTCCTTACAGGATAAAAGCCTTTATACAGAAACAAA
ATGGAACCTTTCATATAAAACCTTTTCTTT
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FIGURE 4160

CGAACCCGGAGCAGGGTCCCATCCGAGCGTGGACTGGCGGCAGGATGTTCAGCTGGATGGGGCGGCAGGCGGGCG
GGCGCGAACGCGCTGGCGGCGCGGACGCGGTGCAGACGGTGACGGGCGGGCTGCGCTCGCTCTACCTGCGCAAGG
TGCTGCCGCTGGAGGAGGCGTACCGCTTCCACGAGTTCCACTCGCCTGCGCTGGAGGACGCCGACTTCGAGAACA
AGCCCTTCTACACTCTGTCGCCCATCAATGGCAAGATATCAGGTGTCAACGCCAAGAAGGAGATGGTGACCTCCA
AGCTGCCCAACAGCGTCCTGGGCAAGATCTGGAAGCTGGCCGACTGCGACTGCGACGGCATGCTTGATGAGGAGG
AGTTCGCGCTGGCCAAGCACCTCATCAAGATCAAGCTCGACGGCTACGAGCTGCCCAGCAGCCTGCCCCCCCACC
TCGTGCCCCCCTCGCACAGGAAGTCCCTGCCCAAGGCCGACTGAGGGGTGGGCTGCAGAACGGGGTGGGAACTGG
GGGACCTGGGCCTCAGGCCTGCTCCACCACTGACTCACCGAATGACCTTGGGCAAGGCACTGCCCTCTCTGTGCC
TTGGTTTCCCCATCTGTAGAATGGGGAGGGTGGACACTGGAAACTAGATGACTTCTTTCACCTCCAAAATTCCCT
TAGTTTCTATGAAAATATTGGGGGTAGGGGGGTGGATTAGGAGATTGAAGGGT

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FIGURE 4161

ATGCCGACCGTCATTAGCGCATCTGTGGCTCCAAGGACAGCGGCTGAGCCCCGGTCCCCAGGGCCAGTTCCTCAC
CCGGCCCAGAGCAAGGCCACTGAGGCTGGGGGTGGAAACCCAAGTGGCATCTATTCAGCCATCATCAGCCGCAAT
TTTCCTATTATCGGAGTGAAAGAGAAGACATTCGAGCAACTTCACAAGAAATGTCTAGAAAAGAAAGTTCTTTAT
GTGGACCCTGAGTTCCCACCGGATGAGACCTCTCTCTTTTATAGCCAGAAGTTCCCCATCCAGTTCGTCTGGAAG
AGACCTCCGGAAATTTGCGAGAATCCCCGATTTATCATTGATGGAGCCAACAGAACTGACATCTGTCAAGGAGAG
CTAGGGGACTGCTGGTTTCTCGCAGCCATTGCCTGCCTGACCCTGAACCAGCACCTTCTTTTCCGAGTCATACCC
CATGATCAAAGTTTCATCGAAAACTACGCAGGGATCTTCCACTTCCAGTTCTGGCGCTATGGAGAGTGGGTGGAC
GTGGTTATAGATGACTGCCTGCCAACGTACAACAATCAACTGGTTTTCACCAAGTCCAACCACCGCAATGAGTTC
TGGAGTGCTCTGCTGGAGAAGGCTTATGCTAAGCTCCATGGTTCCTACGAAGCTCTGAAAGGTGGGAACACCACA
GAGGCCATGGAGGACTTCACAGGAGGGGTGGCAGAGTTTTTTGAGATCAGGGATGCTCCTAGTGACATGTACAAG
ATCATGAAGAAAGCCATCGAGAGAGGCTCCCTCATGGGCTGCTCCATTGATGATGGCACGAACATGACCTATGGA
ACCTCTCCTTCTGGTCTGAACATGGGGGAGTTGATTGCACGGATGGTAAGGAATATGGATAACTCACTGCTCCAG
GACTCAGACCTCGACCCCAGAGGCTCAGATGAAAGACCGACCCGGACAATCATTCCGGTTCAGTATGAGACAAGA
ATGGCCTGCGGGCTGGTCAGAGGTCACGCCTACTCTGTCACGGGGCTGGATGAGGTCCCGTTCAAAGGTGAGAAA
GTGAAGCTGGTGCGGCTGCGGAATCCGTGGGGCCAGGTGGAGTGGAACGGTTCTTGGAGTGATAGATGGAAGGAC
TGGAGCTTTGTGGACAAAGATGAGAAGGCCCGTCTGCAGCACCAGGTCACTGAGGATGGAGAGTTCTGGATGTCC
TATGAGGATTTCATCTACCATTTCACAAAGTTGGAGATCTGCAACCTCACGGCCGATGCTCTGCAGTCTGACAAG
CTTCAGACCTGGACAGTGTCTGTGAACGAGGGCCGCTGGGTACGGGGTTGCTCTGCCGGAGGCTGCCGCAACTTC
CCAGATACTTTCTGGACCAACCCTCAGTACCGTCTGAAGCTCCTGGAGGAGGACGATGACCCTGATGACTCGGAG
GTGATTTGCAGCTTCCTGGTGGCCCTGATGCAGAAGAACCGGCGGAAGGACCGGAAGCTAGGGGCCAGTCTCTTC
ACCATTGGCTTCGCCATCTACGAGGTTCCCAAAGAGATGCACGGGAACAAGCAGCACCTGCAGAAGGACTTCTTC
CTGTACAACGCCTCCAAGGCCAGGAGCAAAACCTACATCAACATGCGGGAGGTGTCCCAGCGCTTCCGCCTGCCT
CCCAGCGAGTACGTCATCGTGCCCTCCACCTACGAGCCCCACCAGGAGGGGGAATTCATCCTCCGGGTCTTCTCT
GAAAAGAGGAACCTCTCTGAGGAAGTTGAAAATACCATCTCCGTGGATCGGCCAGTGAAAAAGAAAAAAACCAAG
CCCATCATCTTCGTTTCGGACAGAGCAAACAGCAACAAGGAGCTGGGTGTGGACCAGGAGTCAGAGGAGGGCAAA
GGCAAAACAAGCCCTGATAAGCAAAAGCAGTCCCCACAGCCACAGCCTGGCAGCTCTGATCAGGAAAGTGAGGAA
CAGCAACAATTCCGGAACATTTTCAAGCAGATAGCAGGAGATGACATGGAGATCTGTGCAGATGAGCTCAAGAAG
GTCCTTAACACAGTCGTGAACAAACACAAGGACCTGAAGACACACGGGTTCACACTGGAGTCCTGCCGTAGCATG
ATTGCGCTCATGGATACAGATGGCTCTGGAAAGCTCAACCTGCAGGAGTTCCACCACCTCTGGAACAAGATTAAG
GCCTGGCAGAAAATTTTCAAACACTATGACACAGACCAGTCCGGCACCATCAACAGCTACGAGATGCGAAATGCA
GTCAACGACGCAGGATTCCACCTCAACAACCAGCTCTATGACATCATTACCATGCGGTACGCAGACAAACACATG
AACATCGACTTTGACAGTTTCATCTGCTGCTTCGTTAGGCTGGAGGGCATGTTCAGAGCTTTTCATGCATTTGAC
AAGGATGGAGATGGTATCATCAAGCTCAACGTTCTGGAGTGGCTGCAGCTCACCATGTATGCCTGA

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FIGURE 4162

MPTVISASVAPRTAAEPRSPGPVPHPAQSKATEAGGGNPSGIYSAIISRNFPIIGVKEKTFEQLHKKCLEKKVLY
VDPEFPPDETSLFYSQKFPIQFVWKRPPEICENPRFIIDGANRTDICQGELGDCWFLAAIACLTLNQHLLFRVIP
HDQSFIENYAGIFHFQFWRYGEWVDVVIDDCLPTYNNQLVFTKSNHRNEFWSALLEKAYAKLHGSYEALKGGNTT
EAMEDFTGGVAEFFEIRDAPSDMYKIMKKAIERGSLMGCSIDDGTNMTYGTSPSGLNMGELIARMVRNMDNSLLQ
DSDLDPRGSDERPTRTIIPVQYETRMACGLVRGHAYSVTGLDEVPFKGEKVKLVRLRNPWGQVEWNGSWSDRWKD
WSFVDKDEKARLQHQVTEDGEFWMSYEDFIYHFTKLEICNLTADALQSDKLQTWTVSVNEGRWVRGCSAGGCRNF
PDTFWTNPQYRLKLLEEDDDPDDSEVICSFLVALMQKNRRKDRKLGASLFTIGFAIYEVPKEMHGNKQHLQKDFF
LYNASKARSKTYINMREVSQRFRLPPSEYVIVPSTYEPHQEGEFILRVFSEKRNLSEEVENTISVDRPVKKKKTK
PIIFVSDRANSNKELGVDQESEEGKGKTSPDKQKQSPQPQPGSSDQESEEQQQFRNIFKQIAGDDMEICADELKK
VLNTVVNKHKDLKTHGFTLESCRSMIALMDTDGSGKLNLQEFHHLWNKIKAWQKIFKHYDTDQSGTINSYEMRNA
VNDAGFHLNNQLYDIITMRYADKHMNIDFDSFICCFVRLEGMFRAFHAFDKDGDGIIKLNVLEWLQLTMYA

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FIGURE 4163A

CAACAATTTATAGAATTGGATTGAAAGTGCCACCTGATGAAAGGGATCCTCGAGTCCCCATGCTGACCTGGAGCA
CCTGCGCTTTCACTATCCAGGCAATTGAAAATCTATTGGGAGATGAAGGAAAACCTCTGTTTGGAGCACTTCAAA
ATAGGCAGCATAATGGTCTGAAAGCATTAATGCAGTTTGCAGTTGCACAGAGGATTACCTGTCCTCAGGTCCTGA
TACAGAAACATCTGGTTCGTCTTCTATCAGTTGTTCTTCCTAACATAAAATCAGAAGATACACCATGCCTTCTGT
CTATAGATCTGTTTCATGTTTTGGTGGGTGCTGTGTTAGCATTCCCATCCTTGTATTGGGATGACCCTGTTGATC
TGCAGCCTTCTTCAGTTAGTTCTTCCTATAACCACCTTTATCTCTTCCATTTGATCACCATGGCACACATGCTTC
AGATACTACTTACAGTAGACACAGGCCTACCCCTTGCTCAGGTTCAAGAAGACAGTGAAGAGGCTCATTCCGCAT
CTTCTTTCTTTGCAGAAATTTCTCAATATACAAGTGGCTCCATTGGGTGTGATATTCCTGGCTGGTATTTGTGGG
TCTCACTGAAGAATGGCATCACCCCTTATCTTCGCTGTGCTGCATTGTTTTTCCACTATTTACTTGGGGTAACTC
CGCCTGAGGAACTGCATACCAATTCTGCAGAAGGAGAGTACAGTGCACTCTGTAGCTATCTATCTTTACCTACAA
ATTTGTTCCTGCTCTTCCAGGAATATTGGGATACTGTAAGGCCCTTGCTCCAGAGGTGGTGTGCAGATCCTGCCT
TACTAAACTGTTTGAAGCAAAAAAACACCGTGGTCAGGTACCCTAGAAAAAGAAATAGTTTGATAGAGCTTCCTG
ATGACTATAGCTGCCTCCTGAATCAAGCTTCTCATTTCAGGTGCCCACGGTCTGCAGATGATGAGCGAAAGCATC
CTGTCCTCTGCCTTTTCTGTGGGGCTATACTATGTTCTCAGAACATTTGCTGCCAGGAAATTGTGAACGGGGAAG
AGGTTGGAGCTTGCATTTTTCACGCACTTCACTGTGGAGCCGGAGTCTGCATTTTCCTAAAAATCAGAGAATGCC
GAGTGGTCCTGGTTGAAGGTAAAGCCAGAGGCTGTGCCTATCCAGCTCCTTACTTGGATGAATATGGAGAAACAG
ACCCTGGCCTGAAGAGGGGCAACCCCCTTCATTTATCTCGTGAGCGGTATCGGAAGCTCCATTTGGTCTGGCAAC
AACACTGCATTATAGAAGAGATTGCTAGGAGCCAAGAGACTAATCAGATGTTATTTGGATTCAACTGGCAGTTAC
TGTGAGCTCCAACTCTGCCTCAAGACAATCACAAATGACGACAGTAGTAAAGGCTGATTCAAAATTATGGAAAAC
TTTCTGAGGGCTGGGAAAGTATTGGAGGGTCTTTTGCTCCATGTCCAGGTTCACTTACATCAATAAAATATTTCT
TAATGGAGTATTGCTTTCAATTAGCAAACATATGCTTCACAGGAAAAAAGGACATAGATCAATCTGTTTTATGTG
CTAGTATTTCCAGGAATTTATTCCCCTTCATAATTTGTCTCATTTCATTTTATTTCATCCACTTGGTAGATGAAG
TCACGTCAAACAGTTGTAGACATTTTATATGTTGGTTAACTCTTCTGCAATTTTGTATTTGGTGTTTTCCCCCCA
AGTTTAGTTCAACTGACATTGGATCACTGACAAAATTCTAATAATCTGTGATAGTCTTCCTTGCAGTTAAAGAAG
AATTGCAGAAACCATGCAATATACTTGGGAAAGATTCCAAAAATAAATTTTTTATTATTTCTCTTTTAAGGAAAT
ACCCCTAATGTGCCACCTGCTGCTATCACCACAAATTAAACTCAATCTCTATGTGGACAGAGGATGATTTCTGCC
AATATGGAAAAGCTTTTTTCTCACTGTAGGCCTCAAGAAAAGTTAGGGTAATGTATTTGTTATTCATTCCTGACG
GTACAAAGAGCTTGCAGTTCTCACCTCTGACTACCAGTAGCTTTGTTGAGTTTTGAAATAATACTTGACATTTTC
CAAAGGCAAATCTCATTCTGCAAGGAGATTGTGGCACCATCCTGTTTGACTCTCAGAAACCTCTTGTAATTCTGA
TGTAAAAACTGTAGAATGAAGATGAGAAAATTCTCGCAATGAGTGGATCATGACAACTGTAAATTAGAACAATCA
GATTTAAACCAATTCCGCAGTCTTCTATATCTTTGTAAAAGACAAATCCTTGATGTTGTCTGTGTGCAACCTTTT
CATAAACTCTGGTTTTATGACTAGTACAAACCACCAAAAAAGCCATGTGATCAATAGTCTGTGTCCTGTTATAAC
ATGCTGTGGTTGAGCCATCTTGTTTATAAATAATAGAGCTCTCCTGAATTTGTGCATAGACTTCTTGGTTCCTGG
CTTTTGTTTTTTGTATCAAGAGATTGTGATATAAAACAGCAGAAGATAAATGGAAACCTTCCATTTTAACTTACG
TTGTTTCTGGGGTAATGTTAGAACCTTGAAAGATGCATTCAAAGACTGTATCTTATTTTGCCCTTGGCTATTAGT
GTCTCACATATGTGTGTAAATGTTTTCCTACCTTCTTTTTGCTCAGCAAAGGCAAGCAAGTAAAATATATTTGCT
AAGTGATTAGTGATGCACATTTGGGGCTAGATTTTTTGGTACTTTTATGTAAAGAAAAGTGGATTTTGCAGTAA
GGGATTGGCATGAGCAGGCGTCAGAATCACAATCATGATTTTCTACTTGAATAATTACAATTCAGAAGGTATCTG
GATAAATAGATACATGTCTAGTGAACAATTTGTAACAATAACAGGTAAGGATCAGGAAATTCAGTATTCAGTTTG
TCAGATTTGCCAGAATGATGAAAGTATTTGAACATGTGTGTTTGTTTCTTATATAATTGTATTGAGTGGATTGTT
TGACTGGGAAATCTGGGCTAGAATAGGAAACAGAAGATACTGACTTCTACCCTAATAGATGGGCCCCAATTTAGC
AAAGATAAACTGACTTTATTTTTAGTCCTTTTTATATTAACTTAATAAATTCTGGAGTTAGGCTCTCAAGAGGAC
AGAGGGACTGTCTGGCAATGGCCAGCCAGACCTTTACTGCCAAAGAACCCATTTCATATTGCGTTCCACTGATTG
AGATTGATTCAGATTTTTGCACTGTAGATGAGCGTATGTCTCAGTGCTGCCCCAAGCCCCAGGGATTTCTCATTA
TGTTCAAATGTCCTAGTGATTTACCTTAATCATTGCAAACAATTATGCTTATGAAGTTTACTTACAAACAAGCAA
CTGAGTCACTTTATTTTCTTTAGTGTAGTATGTGAAGGCACTGGTTCAACAGGATGGCTCCAGAACTGTGTTTTT
CTAATGTTTGGTAAGGGGCTAGTGAGAATTTTAATGATATGGTGAAGAAAAATATATCTGTATAATTAATTTATT
ATATTGGTGTATGGGCTGTGAGTTCACCTTTTAGTGGTCATTTGTCATTTCATAACAACTATGCATTTTGGTTCA

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FIGURE 4163B

CTGTGATGATGATCTATATTTAGTGACTGCAACATGTTTATACCACTGATTCAAATTCCATCCATGATGAAGTTA
TACAAATAATGCATATATTGATAACTTTTATTGCAAAAATGTAAATTTAAAACTTGTATAATGTTCTTGTGCTTT
TTAAAATAAAATATATGTGTATATTT

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FIGURE 4164

MAHMLQILLTVDTGLPLAQVQEDSEEAHSASSFFAEISQYTSGSIGCDIPGWYLWVSLKNGITPYLRCAALFFHY
LLGVTPPEELHTNSAEGEYSALCSYLSLPTNLFLLFQEYWDTVRPLLQRWCADPALLNCLKQKNTVVRYPRKRNS
LIELPDDYSCLLNQASHFRCPRSADDERKHPVLCLFCGAILCSQNICCQEIVNGEEVGACIFHALHCGAGVCIFL
KIRECRVVLVEGKARGCAYPAPYLDEYGETDPGLKRGNPLHLSRERYRKLHLVWQQHCIIEEIARSQETNQMLFG
FNWQLL

4518/6881
FIGURE 4165

CCTTTTGGCTCTCTGACCAGCACC<u>ATG</u>GCGGTTGGCAAGAACAAGAGCCTTACGAAAGGCGGCAAAAAGGGAGCC
AAGAAGAAAGTGGTTGATCCGTTTTCTAAGAAAAATTGGTATGATACGAAAGCACCTGCTATGTTCAATATATGA
AATATTGGAAAGATGCTGGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGATCTCAAGGGTCATGTGTTT
GAAGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTCAG
GGTAAAAACTGCCTGACTAACTTCCATGGCATGGATCTTACCCGTGACAAAACGTGTTCCATGGTCAAAAAATGG
CAGACAATGATTGAAGCTCATGTTGATGTCAAGACTACCGATGGTTACTTGCTTCATCTGTTCTGTGTTGGTTTT
AATAAAAAACGCAACAATCAGATATGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAG
ATGATGGAAATCACGACCCGAGAGGTGCAGACTAATGACTTGAAAGAAGTGGTCAATAAATTGATTCCAGACAGC
ATTGGAAAAGACATAGAAAAGGCTTGCCAATCTATTTATCCTCTCCGTGATGTCTTCGTTAGAAAAGTAAAAATG
CTGAAGAAGCCCAAGTTTGAATTGGGAAGGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCCACT
GGGGATGAGACAGGTGCTAAAGTTGGACGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTT<u>TAA</u>AGTTCA
GACTTCAAATAGTGGCAAATAAAAAGTGCTATTTGTGA

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FIGURE 4166

WRLARTRALRKAAKREPRRKWLIRFLRKIGMIRKHLLCSIYENIGKMLVTRTQGTKIASDDLKGHVFEVSLADLQ
NDEVAFRKFKLITEDVQGKNCLTNFHGMDLTRDKTCSMVKKWQTMIEAHVDVKTTDGYLLHLFCVGFNKKRNNQI
WKTSYAQHQQVRQIRKKMMEITTREVQTNDLKEVVNKLIPDSIGKDIEKACQSIYPLRDVFVRKVKMLKKPKFEL
GRLMELHGEGSSSGKATGDETGAKVGRADGYEPPVQESV

4520/6881
FIGURE 4167A

CACAACCGTGACAGACTGCCATTCCTGAGTCTCTTCTGGCCATGGGCCCCCGGAGCCGTGAGCGTCGGGCAGGCG
CGGTACAGAACACCAACGACAGCAGCGCCCTCAGCAAGCGTTCCCTGGCCGCGCGCGGGTACGTGCAGGACCCCT
TTGCCGCGTTGCTGGTTCCGGGCGCGGCGCGCCGCGCACCGCTCATTCACCGAGGCTACTACGTCCGCGCACGCG
CCGTGAGGCACTGCGTGCGCGCTTTTTTGGAGCAGATTGGCGCGCCCCAGGCCGCGCTTCGCGCGCAGATCTTGT
CTCTCGGCGCTGGCTTCGACTCGCTCTATTTTCGCTTAAAAACCGCGGGCCGCCTGGCCCGGGCTGCAGTCTGGG
AGGTGGATTTTCCGGACGTGGCGCGGCGCAAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGCGTTAACCG
GGCCTTTCGAGAGGGGGGAGCCCGCGTCCGCGCTGTGCTTTGAGAGCGCAGACTACTGCATCCTGGGTCTGGACT
TGCGGCAGCTCCAGCGAGTGGAGGAGGCCCTGGGCGCCGCGGGGCTCGACGCAGCCTCACCCACTCTGCTCCTGG
CCGAGGCGGTGCTGACCTACCTCGAGCCGGAGAGTGCCGCGGCCCTCATCGCCTGGGCAGCCCAGCGTTTTCCTA
ATGCCCTTTTCGTGGTCTATGAGCAGATGAGGCCTCAAGACGCCTTTGGCCAGTTCATGCTGCAACATTTTCGGC
AGCTAAACTCCCCCCTGCATGGCCTGGAGCGTTTTCCTGACGTGGAGGCGCAGCGGCGCCGCTTCCTTCAAGCTG
GCTGGACCGCCTGCGGTGCCGTGGACATGAATGAATTCTATCACTGCTTTCTTCCCGCAGAAGAACGCCGGCGGG
TGGAAAATATTGAACCCTTTGACGAATTTGAGGAGTGGCATCTGAAGTGCGCCCATTATTTCATTCTGGCAGCTT
CTAGGGGAGACACCCTCTCCCACACCCTAGTGTTTCCATCCTCAGAGGCATTTCCTCGCGTAAATCCTGCTTCGC
CTTCAGGGGTATTCCCTGCCAGCGTAGTCAGTAGCGAGGGCCAGGTCCCAAACCTGAAGAGATATGGCCACGCCT
CTGTCTTCTTGAGCCCAGACGTTATTCTCAGTGCAGGAGGATTTGGAGAGCAGGAGGGGCGGCACTGCCGAGTGA
GCCAGTTTCACTTGCTCTCAAGAGATTGTGACTCTGAATGGAAAGGCAGCCAAATAGGCAGTTGTGGGACTGGAG
TTCAGTGGGATGGACGCCTTTATCACACCATGACAAGACTCTCAGAGAGTCGGGTTCTGGTTCTGGGAGGGAGAC
TGTCCCCAGTAAGTCCAGCCTTGGGGGTTCTCCAGCTTCATTTTTTTAAGAGTGAGGATAATAACACTGAGGACC
TGAAAGTGACAATAACAAAGGCTGGCCGAAAGGATGATTCCACTTTGTGTTGTTGGCGGCATTCAACAACAGAAG
TGTCCTGTCAGAATCAGGAATATTTGTTTGTGTATGGGGGTCGAAGCGTGGTGGAACCTGTACTAAGTGACTGGC
ATTTCCTCCATGTAGGGACAATGGCTTGGGTCAGGATCCCAGTGGAGGGAGAAGTACCTGAAGCCCGGCATTCTC
ACAGTGCCTGCACTTGGCAAGGGGGAGCCCTTATTGCTGGAGGTCTCGGGGCTTCTGAGGAGCCATTGAACTCTG
TGCTCTTTCTGAGACCAATCTCTTGTGGATTCCTCTGGGAGTCAGTAGACATCCAGCCTCCCATTACCCCAAGGT
ACTCCCACACAGCTCATGTGCTCAATGGAAAGCTGTTACTGGTTGGAGGGATCTGGATTCATTCCTCCTCATTTC
CTGGAGTGACTGTGATCAATTTGACTACAGGATTGAGCTCTGAGTATCAGATTGACACAACATATGTGCCATGGC
CATTAATGTTACACAACCATACTAGTATCCTTCTTCCTGAAGAGCAACAGCTCCTGCTCCTTGGAGGTGGTGGGA
ACTGCTTTTCCTTTGGTACCTACTTCAACCCCCATACAGTCACATTAGACCTTTCTTCCTTAAGTGCTGGGCAGT
AAGGACTGGACTAATATTCAGGACCCACTAAAGTAGACAATAAAGTTTTCCACAAATAGGATGACCCTCTAGCTA
TAGATACTGCCACTCCTCCTTTCCCCATCCTTTTTTTCCCTTAGCACTATTCAGTGCAAAAAGTGAAAAAGGTTG
GTAAAATAGGTAAAATACCTAGAAACAATCACTACAGAAACAGCTGAAGACAGTGGCCATGCAGTCCGAGAGGA
GTAGTGGTCTGCCTCTAATTTTCTAATCTAAGTTCGTTTATTGAGTTACAGTGGTCTTTAGTAAAGTAAAACAAT
TTCCCAATCCCAGGCCTTGTGATTTGAGATGGTACCTTAGAAAAAGTTACACGCAGTTCCGTGGTTGAATATATT
TGAGATGGTACCTTAGAAAAAGTTTCACGCAGATCCTTGGTTGAATATAGTTGAGGGAGCGTAGTATTGACAATT
CTTCATGTAGGAAACCTGAAATGAACACAGTCACAGTTTGATTAAAACATTGTCCTGTTTGTTGCAACAGAAAAC
TCGGATAGTTTTAACAACAGGAAACACTTGTAGGACTTCCTTTACCAACATACTTTTTAAATGTTTGCTATTGG
TTCCATATTTATTTAGATTTATAAGTGTCAATAAAGCAAACTTTTGATGCCTCAATTCATTTGCACGGGTATA
ATAATGTTTTGTTCCAGATATACTCTCCACCTTTCACTGTTCTGTGCTCCAAGAGGCTGACCTTTATGGGCTGCA
TCAAGGAGCTCTCTTTACTTTTTGGTTGAGTTCCACCAGTCAGAGGCACCAGAGGGGAATGGGGGCAAAAAGAAG
AGTGAGAGTGAGTTGGTATTTATTCCCAATTCTTCCCCTGTTGGTTTGCAAGTTGGCAGTGGCAGCATTCTTCTG
TCAAAGGCTACAGCTCCTGCCGTGTAATCCTTTCCTGAAGACAGAGTTCTAATTCTGCATCATCCCAGGTTTCAG
TAATTGTTCCTTTACTTCACCTTTTCAGGCCTAGGAGTTGTGATGGCTCTTTGCTAGACCTGAACTGTACTGTCC
AATGTGGTAGCTATTGACAACATGTGACTATTTAAACGAATTAATAAATTCAGTGGCTTAGTCACATTGACCACA
TTTTAAGTGCTTAATAACTATGTGTGGCTTTGGCTACTGTATTAGACAATGTAGATGTAGAACATTTCATCGTTA
CAGAAATTTCTACTGGACACTGCTGACTGGATATCTTGACTTGGTTTCCCTTAACCCTACTCAGCCCCTTATAGT
TAGCATCCCATTAAACTCAATTATCCCTTTTAAATGGGAATCTGTTGCCTAGTGAGCCATGTGAGATCAATGAAA
TAGCTATTCATCCTTAAAATTTGAGCCTTAATTTGTCATCTAAATTATGCATACCTTGTGAAATATACACCTCAA
AAAATGTAGTGGCTTTGGTGGTAATAAGTGTATTACTTTAGTATTTCTTCTTAGTCCTAGAAACCTTAGTAGTTT

FIGURE 4167B

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TCATTCTACAAGTGCCTAAATGATTATTATGAACCATCATTGATGACAAATTGCATCCTTTATTTCTATTAATTT
TGCATATAAATGGATGTGAAAGGTGATTAATATAAAAACCAAGTAGCAAACACAAACCTAAGTGTATGGAGAGGA
CAGTCTTGGCTCTGTTAGATGAAGCCTCCCCGGGGGAGACCAGCTGAATGAGGGTTGTGGTATAGGCTGGGCATG
GTGGCTCACGCCTATAATTCCAGCACTTTGGGAGGCCAAGACAGAAGGATCACTTAAAGCCAGGAGTTTAAGACC
AGCCCAGGCAACAAAGTCAGATCCCCATCTCTACAAAAAAATAAGTAGGCACGGTGGTGTGTGCTTGTAGTCTTG
GATACTCTGGAGGCTGAGGTGATAGTGAGCTGTGATTGTGCCACTGCACTCCTGCCTGGTTGACAGAGTGAGACC
CCGTCTCTTAAAAAGAAAAAAAAAAAGGTTGTTGTCCAACTTCAGCTTTCCTGAGACTTTGTAAGAGCCATTTC
TAGGGAAAGCATTGGTTATGGCTATGACTGAGTCCTGGGAAACAGGGCTTATTACAGCTGGGAAGACATCTGGCA
AGGCGATCAGTGGGCCAGGTAGTAGAAAACTGGCAGGGAATATGATCAGCAGGAGAAAATGGCTGTTCTGTATTT
CCTGTTTCTAAGTTTACTACAGCACACCCCAGCTTTCAGGAGCAGATAAAAGCAGAACACTGTGATGAGGCCAGG
CGCAGTGGCACATGCCTTGATCCCAGCACTTTGGGAGGCCAAGGCTGGCAGATCACTTGAACTCAGGAGTTGGAG
ACCAGCCTGGCCAATATGGTGAAACTCCGTCTCTACCCAAAAAAAAAAAAAAAA
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FIGURE 4168

GAATGATCCACGAACTGCTCTTGGCTCTGAGCGGGTACCCTGGGTCCATTTTCACCTGGAACAAGCGGAGTGGCC
TGCAGGTATCGCAGGACTTCCCTTTCCTCCACCCCAGTGAGACCAGTGTCCTGAATCGACTCTGCCGGCTCGGCA
CAGACTATATTCGCTTCACTGAGTTCATTGAACAGTACACGGGCCATGTGCAACAGCAGGATCACCATCCATCTC
AACAGGGCCAAGGTGGGTTACATGGAATCTACCTGCGGGCCTTCTGCACAGGGCTGGATTCTGTTTTGCAGCCTT
ATCGCCAAGCACTGCTTGATTTGGAACAAGAGTTCCTGGGTGATCCCCATCTCTCCATATCACATGTCAACTACT
TCCTAGACCAGTTCCAGCTTCTTTTTCCCTCTGTGATGGTTGTAGTAGAACAAATTAAAAGTCAAAAGATTCATG
GTTGTCAAATCCTGGAAACAGTCTACAAACACAGCTGTGGGGGGTTGCCTCCTGTTCGAAGTGCACTGGAAAAAA
TCCTGGCCGTTTGTCATGGGGTCATGTATAAACAGCTCTCAGCCTGGATGCTCCATGGACTCCTCTTGGACCAGC
ATGAAGAATTCTTTATCAAACAGGGGCCATCTTCTGGTAATGTCAGTGCCCAGCCAGAAGAGGACGAGGAGGATC
TGGGCATTGGGGGACTGACAGGAAAACAACTGAGAGAACTGCAGGACTTGCGCCTGATTGAGGAAGAGAACATGC
TGGCACCATCTCTGAAGCAGTTTTCCCTACGAGTGGAGATTTTGCCATCCTACATTCCAGTGAGGGTTGCTGAAA
AAATCCTATTTGTTGGAGAATCTGTCCAGATGTTTGAGAATCAAAATGTGAACCTGACTAGAAAAGGATCCATTT
TGAAAAACCAGGAAGACACTTTTGCTGCAGAGCTGCACCGTCTCAAGCAGCAGCCACTCTTCAGCTTGGTGGACT
TTGAACAGGTGGTGGATCGCATTCGCAGCACTGTGGCTGAGCATCTCTGGAAGTTGATGGTAGAAGAATCCGATT
TACTGGGTCAGCTGAAGATCATTAAAGACTTTTACCTTCTGGGACGTGGAGAACTGTTTCAGGCCTTCATTGACA
CAGCTCAACACATGTTGAAAACACCACCCACTGCAGTAACTGAGCATGATGTGAATGTGGCCTTTCAACAGTCAG
CACACAAGGTATTGCTAGATGATGACAACCTTCTCCCTCTGTTGCACTTGACAATCGAGTATCACGGAAAGGAGC
ACAAAGCAGATGCTACTCAGGCAAGAGAAGGGCCTTCTCGGGAAACTTCTCCCCGGGAAGCCCCTGCATCTGGCT
GGGCAGCCCTAGGTCTTTCCTACAAAGTACAGTGGCCACTACATATTCTCTTCACCCCAGCTGTCCTGGAAAAGT
ACAATGTTGTTTTTAAGTACTTACTGAGTGTGCGCCGGGTGCAAGCTGAGCTGCAGCACTGCTGGGCCCTACAAA
TGCAGCGCAAGCACCTCAAGTCGAACCAGACTGATGCAATCAAGTGGCGCCTAAGAAATCACATGGCATTTTTGG
TGGATAATCTTCAGTACTATCTCCAGGTAGATGTGTTGGAGTCTCAGTTCTCCCAGCTGCTTCATCAGATCAATT
CTACCCGAGACTTTGAAAGCATCCGATTGGCTCATGACCACTTCCTGAGCAATTTGCTGGCTCAATCCTTTATCC
TATTGAAACCTGTGTTTCACTGCCTGAATGAAATCCTAGATCTCTGTCACAGTTTTTGTTCGCTGGTCAGTCAGA
ACCTAGGCCCACTGGATGAGCGTGGAGCCGCCCAGCTGAGCATTCTCGTGAAGGGCTTTAGCCGCCAGTCTTCAC
TCCTGTTCAAGATTCTCTCCAGTGTTCGGAATCATCAGATCAACTCAGATTTGGCTCAACTACTGTTACGACTAG
ATTATAACAAATACTATACCCAGGCTGGTGGAACTCTGGGCAGTTTCGGGATGTGA

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FIGURE 4169

MIHELLLALSGYPGSIFTWNKRSGLQVSQDFPFLHPSETSVLNRLCRLGTDYIRFTEFIEQYTGHVQQQDHHPSQ
QGQGGLHGIYLRAFCTGLDSVLQPYRQALLDLEQEFLGDPHLSISHVNYFLDQFQLLFPSVMVVVEQIKSQKIHG
CQILETVYKHSCGGLPPVRSALEKILAVCHGVMYKQLSAWMLHGLLLDQHEEFFIKQGPSSGNVSAQPEEDEEDL
GIGGLTGKQLRELQDLRLIEEENMLAPSLKQFSLRVEILPSYIPVRVAEKILFVGESVQMFENQNVNLTRKGSIL
KNQEDTFAAELHRLKQQPLFSLVDFEQVVDRIRSTVAEHLWKLMVEESDLLGQLKIIKDFYLLGRGELFQAFIDT
AQHMLKTPPTAVTEHDVNVAFQQSAHKVLLDDDNLLPLLHLTIEYHGKEHKADATQAREGPSRETSPREAPASGW
AALGLSYKVQWPLHILFTPAVLEKYNVVFKYLLSVRRVQAELQHCWALQMQRKHLKSNQTDAIKWRLRNHMAFLV
DNLQYYLQVDVLESQFSQLLHQINSTRDFESIRLAHDHFLSNLLAQSFILLKPVFHCLNEILDLCHSFCSLVSQN
LGPLDERGAAQLSILVKGFSRQSSLLFKILSSVRNHQINSDLAQLLLRLDYNKYYTQAGGTLGSFGM

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FIGURE 4170A

CGTTGTTTGGCGTGTTTTTTTTTTTGTTTTTTGTCACTGCCTGCCTGGGTCCTGCCCGAGGTCTCCATCCTCGGT
TTCCCTGTCCTTGCCCCGGGCCCTGGGAGTGCTCTGGAAGGCTGCGCAGTATTGGAGGGGACAGAATGACCTTCC
GGCCTTGAGTCCCTGGGGAGCAG<u>ATG</u>GACCCTACTGGAAGTCAGTTGGATTCAGATTTCTCTCAGCAAGATACTC
CTTGCCTGATAATTGAAGATTCTCAGCCTGAAAGCCAGGTTCTAGAGGATGATTCTGGTTCTCACTTCAGTATGC
TATCTCGACACCTTCCTAATCTCCAGACGCACAAAGAAAATCCTGTGTTGGATGTTGTGTCCAATCCTGAACAAA
CAGCTGGAGAAGAACGAGGAGACGGTAATAGTGGGTTCAATGAACATTTGAAAGAAAACAAGGTTGCAGACCCTG
TGGATTCTTCTAACTTGGACACATGTGGTTCCATCAGTCAGGTCATTGAGCAGTTACCTCAGCCAAACAGGACAA
GCAGTGTTCTGGGAATGTCAGTGGAATCTGCTCCTGCTGTGGAGGAAGAGAAGGGAGAAGAGTTGGAACAGAAGG
AGAAAGAGAAGGAAGAAGATACTTCAGGCAATACTACACATTCCCTTGGTGCTGAAGATACTGCCTCATCACAGT
TGGGTTTTGGGGTTCTGGAACTCTCCCAGAGCCAGGATGTTGAGGAAAATACTGTGCCATATGAAGTGGACAAAG
AGCAGCTACAATCAGTAACCACCAACTCTGGTTATACCAGGCTGTCTGATGTGGATGCTAATACTGCAATTAAGC
ATGAAGAACAGTCCAACGAAGATATCCCCATAGCAGAACAGTCCAGCAAGGACATCCCTGTGACAGCACAGCCCA
GTAAGGATGTACATGTTGTAAAAGAGCAAAATCCACCACCTGCAAGGTCAGAGGACATGCCTTTTAGCCCCAAAG
CATCTGTTGCTGCTATGGAAGCAAAAGAACAGTTGTCTGCACAAGAACTTATGGAAAGTGGACTGCAGATTCAGA
AGTCACCAGAGCCTGAGGTTTTGTCAACTCAGGAAGACTTGTTTGACCAGAGCAATAAAACAGTATCTTCTGATG
GTTGCTCTACTCCTTCAAGGGAGGAAGGTGGGTGTTCTTTGGCTTCCACTCCTGCCACCACTCTGCATCTCCTGC
AGCTCTCTGGTCAGAGGTCCCTTGTTCAGGACAGTCTTTCCACGAATTCTTCAGATCTTGTTGCTCCTTCTCCTG
ATGCTTTCCGATCTACTCCTTTTATCGTTCCTAGCAGTCCCACAGAGCAAGAAGGGAGACAAGATAAGCCAATGG
ACACGTCAGTGTTATCTGAAGAAGGAGGAGAGCCTTTTCAGAAGAAACTTCAAAGTGGTGAACCAGTGGAGTTAG
AAAACCCCCCTCTCCTGCCTGAGTCCACTGTATCACCACAAGCCTCAACACCAATATCTCAGAGCACACCAGTCT
TCCCTCCTGGGTCACTTCCTATCCCATCCCAGCCTCAGTTTTCTCATGACATTTTTATTCCTTCCCCAAGTCTGG
AAGAACAATCAAATGATGGGAAGAAAGATGGAGATATGCATAGTTCATCTTTGACAGTTGAGTGTTCTAAAACTT
CAGAGATTGAACCAAAGAATTCCCCTGAGGATCTTGGGCTATCTTTGACAGGGGATTCTTGCAAGTTGATGCTTT
CTACAAGTGAATATAGTCAGTCCCCAAAGATGGAGAGCTTGAGTTCTCACAGAATTGATGAAGATGGAGAAAACA
CACAGATTGAGGATACGGAACCCATGTCTCCAGTTCTCAATTCTAAATTTGTTCCTGCTGAAAATGATAGTATCC
TGATGAATCCAGCACAGGATGGTGAAGTACAACTGAGTCAGAATGATGACAAAACAAAGGGAGATGATACAGACA
CCAGGGATGACATTAGTATTTTAGCCACTGGTTGCAAGGGCAGAGAAGAAACGGTAGCAGAAGATGTTTGTATTG
ATCTCACTTGTGATTCGGGGAGTCAGGCAGTTCCGTCACCAGCTACTCGATCTGAGGCACTTTCTAGTGTGTTAG
ATCAGGAGGAAGCTATGGAAATTAAAGAACACCATCCAGAGGAGGGGTCTTCAGGGTCTGAGGTGGAAGAAATCC
CTGAGACACCTTGTGAAAGTCAAGGAGAGGAACTCAAAGAAGAAAATATGGAGAGTGTTCCGTTGCACCTTTCTC
TGACTGAAACTCAGTCCCAAGGGTTGTGTCTTCAAAAGGAAATGCCAAAAAAAGAATGCTCAGAAGCTATGGAAG
TTGAAACCAGTGTGATTAGTATTGATTCCCCTCAAAAGTTGGCAATACTTGACCAAGAATTGGAACATAAGGAAC
AGGAAGCTTGGGAAGAAGCTACTTCAGAGGACTCCAGTGTTGTCATTGTAGATGTGAAAGAGCCATCTCCCAGAG
TTGATGTTTCTTGTGAACCTTTGGAGGGAGTGGAGAAGTGCTCAGATTCCCAGTCATGGGAGGATATTGCTCCAG
AAATAGAACCATGTGCTGAGAATAGATTAGACACCAAGGAAGAAAAGAGTGTAGAATATGAAGGAGATCTGAAAT
CAGGGACTGCAGAAACAGAACCTGTAGAGCAAGATTCTTCACAGCCTTCCTTACCTTTAGTGAGAGCAGATGATC
CTTTAAGACTTGACCAGGAGTTGCAGCAGCCCCAAACTCAGGAGAAAACAAGTAATTCATTAACAGAAGACTCAA
AAATGGCTAATGCAAAGCAGCTAAGCTCAGATGCAGAGGCCCAGAAGCTGGGGAAGCCCTCTGCCCATGCCTCAC
AAAGCTTCTGTGAAAGTTCTAGTGAAACCCCATTTCATTTCACTTTGCCTAAAGAAGGTGATATCATCCCACCAT
TGACTGGTGCAACCCCACCTCTTATTGGGCACCTAAAATTGGAGCCCAAGAGACACAGTACTCCTATTGGTATTA
GCAACTATCCAGAAAGCACCATAGCAACCAGTGATGTCATGTCTGAAAGCATGGTGGAGACCCATGATCCCATAC
TTGGGAGTGGAAAAGGGGATTCTGGGGCTGCCCCAGACGTGGATGATAAATTATGTCTAAGAATGAAACTGGTTA
GTCCTGAGACTGAGGCGAGTGAAGAGTCTTTGCAGTTCAACCTGGAAAAGCCTGCAACTGGTGAAAGAAAAAATG
GATCTACTGCTGTTGCTGAGTCTGTTGCCAGTCCCCAGAAGACCATGTCTGTGTTGAGCTGTATCTGTGAAGCCA
GGCAAGAGAATGAGGCTCGAAGTGAGGATCCCCCCACCACACCCATCAGGGGGAACTTGCTCCACTTTCCAAGTT
CTCAAGGAGAAGAGGAGAAAGAAAAATTGGAGGGTGACCATACAATCAGGCAGAGTCAACAGCCTATGAAGCCCA
TTAGTCCTGTCAAGGACCCTGTTTCTCCTGCTTCCCAGAAGATGGTCATACAAGGGCCATCCAGTCCTCAAGGAG
AGGCAATGGTGACAGATGTGCTAGAAGACCAGAAAGAAGGACGGAGTACTAATAAGGAAAATCCTAGTAAGGCCT

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FIGURE 4170B

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TGATTGAAAGGCCCAGCCAAAATAACATAGGAATCCAAACCATGGAGTGTTCCTTGAGGGTCCCAGAAACTGTTT
CAGCAGCAACCCAGACTATAAAGAATGTGTGTGAGCAGGGGACCAGTACAGTGGACCAGAACTTTGGAAAGCAAG
ATGCCACAGTTCAGACTGAGAGGGGGAGTGGTGAGAAACCAGTCAGTGCTCCTGGGGATGATACAGAGTCGCTCC
ATAGCCAGGGAGAAGAAGAGTTTGATATGCCTCAGCCTCCACATGGCCATGTCTTACATCGTCACATGAGAACAA
TCCGGGAAGTACGCACACTTGTCACTCGTGTCATTACAGATGTGTATTATGTGGATGGAACAGAAGTAGAAAGAA
AAGTAACTGAGGAGACTGAAGAGCCAATTGTAGAGTGTCAGGAGTGTGAAACTGAAGTTTCCCCTTCACAGACTG
GGGGCTCCTCAGGTGACCTGGGGGATATCAGCTCCTTCTCCTCCAAGGCATCCAGCTTACACCGCACATCAAGTG
GGACAAGTCTCTCAGCTATGCACAGCAGTGGAAGCTCAGGGAAAGGAGCCGGACCACTCAGAGGGAAAACCAGCG
GGACAGAACCCGCAGATTTTGCCTTACCCAGCTCCCGAGGAGCCCAGGAAAACTGAGTCCTAGAAAAGGGGTCA
GTCAGACAGGGACGCCAGTGTGTGAGGAGGATGGTGATGCAGGCCTTGGCATCAGACAGGGAGGGAAGGCTCCAG
TCACGCCTCGTGGGCGTGGGCGAAGGGGCCGCCCACCTTCTCGGACCACTGGAACCAGAGAAACAGCTGTGCCTG
GCCCCTTGGGCATAGAGGACATTTCACCTAACTTGTCACCAGATGATAAATCCTTCAGCCGTGTCGTGCCCCGAG
TGCCAGACTCCACCAGACGAACAGATGTGGGTGCTGGTGCTTTGCGTCGTAGTGACTCTCCAGAAATTCCTTTCC
AGGCTGCTGCTGGCCCTTCTGATGGCTTAGATGCCTCCTCTCCAGGAAATAGCTTTGTAGGGCTCCGTGTTGTAG
CCAAGTGGTCATCCAATGGCTACTTTTACTCTGGGAAAATCACACGAGATGTCGGAGCTGGGAAGTATAAATTGC
TCTTTGATGATGGGTACGAATGTGATGTGTTGGGCAAAGACATTCTGTTATGTGACCCCATCCCGCTGGACACTG
AAGTGACGGCCCTCTCGGAGGATGAGTATTTCAGTGCAGGAGTGGTGAAAGGACATAGGAAGGAGTCTGGGGAAC
TGTACTACAGCATTGAAAAAGAAGGCCAAAGAAAGTGGTATAAGCGAATGGCTGTCATCCTGTCCTTGGAGCAAG
GAAACAGACTGAGAGAGCAGTATGGGCTTGGCCCCTATGAAGCAGTAACACCTCTTACAAAGGCAGCAGATATCA
GCTTAGACAATTTGGTGGAAGGGAAGCGGAAACGGCGCAGTAACGTCAGCTCCCCAGCCACCCCTACTGCCTCCA
GTAGCAGCAGCACAACCCCTACCCGAAAGATCACAGAAAGTCCTCGTGCCTCCATGGGAGTTCTCTCAGGCAAAA
GAAAACTTATCACTTCTGAAGAGGAACGGTCCCCTGCCAAGCGAGGTCGCAAGTCTGCCACAGTAAAACCTGGTG
CAGTAGGGGCAGGAGAGTTTGTGAGCCCCTGTGAGAGTGGAGACAACACCGGTGAACCCTCTGCCCTGGAAGAGC
AGAGAGGGCCTTTGCCTCTCAACAAGACCTTGTTTCTGGGCTACGCATTTCTCCTTACCATGGCCACAACCAGTG
ACAAGTTGGCCAGCCGCTCCAAACTGCCAGATGGTCCTACAGGAAGCAGTGAAGAAGAGGAGGAATTTTTGGAAA
TTCCTCCTTTCAACAAGCAGTATACAGAATCCCAGCTTCGAGCAGGAGCTGGCTATATCCTTGAAGATTTCAATG
AAGCCCAGTGTAACACAGCTTACCAGTGTCTTCTAATTGCGGATCAGCATTGTCGAACCCGGAAGTACTTCCTGT
GCCTTGCCAGTGGGATTCCTTGTGTGTCTCATGTCTGGGTCCATGATAGTTGCCATGCCAACCAGCTCCAGAACT
ACCGTAATTATCTGTTGCCAGCTGGGTACAGCCTTGAGGAGCAAAGAATTCTGGACTGGCAACCCCGTGAAAATC
CTTTCCAGAATCTGAAGGTACTCTTGGTATCAGACCAACAGCAGAACTTCCTGGAGCTCTGGTCTGAGATCCTCA
TGACTGGTGGTGCAGCCTCTGTGAAGCAGCACCATTCAAGTGCCCATAACAAAGATATTGCTTTAGGGGTATTTG
ATGTGGTGGTGACGGACCCCTCATGCCCAGCCTCGGTGCTGAAGTGTGCTGAAGCATTGCAGCTGCCTGTGGTGT
CACAAGAGTGGGTGATCCAGTGCCTCATTGTTGGGGAGAGAATTGGATTCAAGCAGCATCCAAAATATAAACACG
ATTATGTTTCTCAC**TAA**AGATACTTGGTCTTACTGGTTTTATTCCCTGCTATCGTGGAGATTGTGTTTTAACCAG
GTTTTAAATGTGTCTTGTGTGTAACTGGATTCCTTGCATGGATCTTGTATATAGTTTTATTTGCTGAACTTTTAT
GATAAAATAAATGTTGAATCTCTTTGGTTGTAGTAACTGGG
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FIGURE 4171

MDPTGSQLDSDFSQQDTPCLIIEDSQPESQVLEDDSGSHFSMLSRHLPNLQTHKENPVLDVVSNPEQTAGEERGD
GNSGFNEHLKENKVADPVDSSNLDTCGSISQVIEQLPQPNRTSSVLGMSVESAPAVEEEKGEELEQKEKEKEEDT
SGNTTHSLGAEDTASSQLGFGVLELSQSQDVEENTVPYEVDKEQLQSVTTNSGYTRLSDVDANTAIKHEEQSNED
IPIAEQSSKDIPVTAQPSKDVHVVKEQNPPPARSEDMPFSPKASVAAMEAKEQLSAQELMESGLQIQKSPEPEVL
STQEDLFDQSNKTVSSDGCSTPSREEGGCSLASTPATTLHLLQLSGQRSLVQDSLSTNSSDLVAPSPDAFRSTPF
IVPSSPTEQEGRQDKPMDTSVLSEEGGEPFQKKLQSGEPVELENPPLLPESTVSPQASTPISQSTPVFPPGSLPI
PSQPQFSHDIFIPSPSLEEQSNDGKKDGDMHSSSLTVECSKTSEIEPKNSPEDLGLSLTGDSCKLMLSTSEYSQS
PKMESLSSHRIDEDGENTQIEDTEPMSPVLNSKFVPAENDSILMNPAQDGEVQLSQNDDKTKGDDTDTRDDISIL
ATGCKGREETVAEDVCIDLTCDSGSQAVPSPATRSEALSSVLDQEEAMEIKEHHPEEGSSGSEVEEIPETPCESQ
GEELKEENMESVPLHLSLTETQSQGLCLQKEMPKKECSEAMEVETSVISIDSPQKLAILDQELEHKEQEAWEEAT
SEDSSVVIVDVKEPSPRVDVSCEPLEGVEKCSDSQSWEDIAPEIEPCAENRLDTKEEKSVEYEGDLKSGTAETEP
VEQDSSQPSLPLVRADDPLRLDQELQQPQTQEKTSNSLTEDSKMANAKQLSSDAEAQKLGKPSAHASQSFCESSS
ETPFHFTLPKEGDIIPPLTGATPPLIGHLKLEPKRHSTPIGISNYPESTIATSDVMSESMVETHDPILGSGKGDS
GAAPDVDDKLCLRMKLVSPETEASEESLQFNLEKPATGERKNGSTAVAESVASPQKTMSVLSCICEARQENEARS
EDPPTTPIRGNLLHFPSSQGEEEKEKLEGDHTIRQSQQPMKPISPVKDPVSPASQKMVIQGPSSPQGEAMVTDVL
EDQKEGRSTNKENPSKALIERPSQNNIGIQTMECSLRVPETVSAATQTIKNVCEQGTSTVDQNFGKQDATVQTER
GSGEKPVSAPGDDTESLHSQGEEEFDMPQPPHGHVLRHMRTIREVRTLVTRVITDVYYVDGTEVERKVTEETEE
PIVECQECETEVSPSQTGGSSGDLGDISSFSSKASSLHRTSSGTSLSAMHSSGSSGKGAGPLRGKTSGTEPADFA
LPSSRGGPGKLSPRKGVSQTGTPVCEEDGDAGLGIRQGGKAPVTPRGRGRRGRPPSRTTGTRETAVPGPLGIEDI
SPNLSPDDKSFSRVVPRVPDSTRRTDVGAGALRRSDSPEIPFQAAAGPSDGLDASSPGNSFVGLRVVAKWSSNGY
FYSGKITRDVGAGKYKLLFDDGYECDVLGKDILLCDPIPLDTEVTALSEDEYFSAGVVKGHRKESGELYYSIEKE
GQRKWYKRMAVILSLEQGNRLREQYGLGPYEAVTPLTKAADISLDNLVEGKRKRRSNVSSPATPTASSSSSTTPT
RKITESPRASMGVLSGKRKLITSEEERSPAKRGRKSATVKPGAVGAGEFVSPCESGDNTGEPSALEEQRGPLPLN
KTLFLGYAFLLTMATTSDKLASRSKLPDGPTGSSEEEEEFLEIPPFNKQYTESQLRAGAGYILEDFNEAQCNTAY
QCLLIADQHCRTRKYFLCLASGIPCVSHVWVHDSCHANQLQNYRNYLLPAGYSLEEQRILDWQPRENPFQNLKVL
LVSDQQQNFLELWSEILMTGGAASVKQHHSSAHNKDIALGVFDVVVTDPSCPASVLKCAEALQLPVVSQEWVIQC
LIVGERIGFKQHPKYKHDYVSH

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FIGURE 4172

CCGGCTCCCATTCCGGCTCCAGCCTCCAATCCGACCCCCATTTCGGCTGCAGCCTCGGACCTAGCTCCGGCCCTC
GGTCTATCCGGTTGCATCCTCCCTCCCTGTTCCGGATCTTATCTTGCGCCAGCGCCTACTCCAGGATCCCGTAGC
CAGACCTCAAGCCATGGCTGGTCCCTTCTCCCGTCTGCTGTCCGCCCGCCCGGGACTCAGGCTCCTGGCTTTGGC
CGGAGCGGGGTCTCTAGCCGCTGGGTTTCTGCTCCGACCGGAACCTGTACGAGCTGCCAGTGAACGACGGAGGCT
GTATCCCCCGAGCGCTGAGTACCCAGACCTCCGAAAGCACAACAACTGCATGGCCAGTCACCTGACCCCAGCAGT
CTATGCACGGCTCTGCGACAAGACCACACCCACTGGTTGGACGCTAGATCAGTGTATCCAGACTGGCGTGGACAA
CCCTGGCCACCCCTTCATCAAGACTGTGGGCATGGTGGCTGGAGATGAGGAGACCTATGAGGTATTTGCTGACCT
GTTTGACCCTGTGATCCAAGAGCGACACAATGGATATGACCCCCGGACAATGAAGCACACCACGGATCTAGATGC
CAGTAAAATCCGTTCTGGCTACTTTGATGAGAGGTATGTATTGTCCTCTAGAGTCAGAACTGGCCGAAGCATCCG
AGGACTCAGTCTGCCTCCAGCTTGCACTCGAGCAGAGCGACGAGAGGTGGAACGTGTTGTGGTGGATGCACTGAG
TGGCCTGAAGGGTGACCTGGCTGGACGTTACTATAGGCTCAGTGAGATGACAGAGGCTGAACAGCAGCAGCTTAT
TGATGACCACTTTCTGTTTGATAAGCCTGTGTCCCCGTTGCTGACTGCAGCAGGAATGGCTCGAGACTGGCCAGA
TGCTCGTGGAATTTGGCACAACAATGAGAAGAGCTTCCTGATCTGGGTGAATGAGGAGGATCATACACGGGTGAT
CTCCATGGAGAAGGGTGGTAACATGAAGAGAGTGTTTGAAAGATTCTGCCGAGGCCTCAAAGAGGTGGAGAGACT
TATCCAAGAACGTGGCTGGGAGTTCATGTGGAATGAGCGTTTGGGATACATCTTGACCTGTCCATCTAACCTGGG
CACTGGACTTCGGGCAGGAGTGCACATCAAACTGCCCCTGCTAAGCAAAGATAGCCGCTTCCCAAAGATCCTGGA
GAACCTAAGACTCCAAAAACGTGGTACTGGAGGAGTGGACACTGCTGCTACAGGCGGTGTCTTTGATATTTCTAA
TTTGGACCGACTAGGCAAATCAGAGGTGGAGCTGGTGCAACTGGTCATCGATGGAGTAAACTATTTGATTGATTG
TGAACGGCGTCTGGAGAGAGGCCAGGATATCCGCATCCCCACACCTGTCATCCACACCAAGCATTAACTCCCCAT
CGCCAGCTGATGACTCAAGATTCCCAGGAGTTTTGCTCATTCTAATGATGGCCCATTCTACTTGCTCTGGACCTG
CCCCCGCATCCCCTGCCTCCATCCTAGT

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FIGURE 4173

MAGPFSRLLSARPGLRLLALAGAGSLAAGFLLRPEPVRAASERRRLYPPSAEYPDLRKHNNCMASHLTPAVYARL
CDKTTPTGWTLDQCIQTGVDNPGHPFIKTVGMVAGDEETYEVFADLFDPVIQERHNGYDPRTMKHTTDLDASKIR
SGYFDERYVLSSRVRTGRSIRGLSLPPACTRAERREVERVVVDALSGLKGDLAGRYYRLSEMTEAEQQQLIDDHF
LFDKPVSPLLTAAGMARDWPDARGIWHNNEKSFLIWVNEEDHTRVISMEKGGNMKRVFERFCRGLKEVERLIQER
GWEFMWNERLGYILTCPSNLGTGLRAGVHIKLPLLSKDSRFPKILENLRLQKRGTGGVDTAATGGVFDISNLDRL
GKSEVELVQLVIDGVNYLIDCERRLERGQDIRIPTPVIHTKH

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FIGURE 4174

CAAGCAGCGGGTTAGTGGTCGCGCGCCCGACCTCCGCAGTCCCCAGCCGAGCCGCGACCCTTCCGGCCGTCCCCAC
CCCACCTCGCCGCC**ATG**CGCCTCCGCCGCCTAGCGCTGTTCCCGGGTGTGGCGCTGCTTCTTGCCGCGGCCCGCC
TCGCCGCTGCCTCCGACGTGCTAGAACTCACGGACGACAACTTCGAGAGTCGCATCTCCGACACGGGCTCTGCGG
GCCTCATGCTCGTCGAGTTCTTCGCCCCCTGGTGTGGACACTGCAAGAGACTTGCACCTGAGTATGAAGCTGCAG
CTACCAGATTAAAAGGAATAGTCCCATTAGCAAAGGTTGATTGCACTGCCAACACTAACACCTGTAATAAATATG
GAGTCAGTGGATATCCAACCCTGAAGATATTTAGAGATGGTGAAGAAGCAGGTGCTTATGATGGACCTAGGACTG
CTGATGGAATTGTCAGCCACTTGAAGAAGCAGGCAGGACCAGCTTCAGTGCCTCTCAGGACTGAGGAAGAATTTA
AGAAATTCATTAGTGATAAAGATGCCTCTATAGTAGGTTTTTTCGATGATTCATTCAGTGAGGCTCACTCCGAGT
TCCTAAAAGCAGCCAGCAACTTGAGGGATAACTACCGATTTGCACATACGAATGTTGAGTCTCTGGTGAACGAGT
ATGATGATAATGGAGAGGGTATCATCTTATTTCGTCCTTCACATCTCACTAACAAGTTTGAGGACAAGACTGTGG
CATATACAGAGCAAAAAATGACCAGTGGCAAAATTAAAAAGTTTATCCAGGAAAACATTTTTGGTATCTGCCCTC
ACATGACAGAAGACAATAAAGATTTGATACAGGGCAAGGACTTACTTATTGCTTACTATGATGTGGACTATGAAA
AGAACGCTAAAGGTTCCAACTACTGGAGAAACAGGGTAATGATGGTGGCAAAGAAATTCCTGGATGCTGGGCACA
AACTCAACTTTGCTGTAGCTAGCCGCAAAACCTTTAGCCATGAACTTTCTGATTTTGGCTTGGAGAGCACTGCTG
GAGAGATTCCTGTTGTTGCTATCAGAACTGCTAAAGGAGAGAAGTTTGTCATGCAGGAGGAGTTCTCGCGTGATG
GGAAGGCTCTGGAGAGGTTCCTGCAGGATTACTTTGATGGCAATCTGAAGAGATACCTGAAGTCTGAACCTATCC
CAGAGAGCAATGATGGGCCTGTGAAGGTAGTGGTAGCAGAGAATTTTGATGAAATAGTGAATAATGAAAATAAAG
ATGTGCTGATTGAATTTTATGCCCCTTGGTGTGGTCACTGTAAGAACCTGGAGCCCAAGTATAAAGAACTTGGCG
AGAAGCTCAGCAAAGACCCAAATATCGTCATAGCCAAGATGGATGCCACAGCCAATGATGTGCCTTCTCCATATG
AAGTCAGAGGTTTTCCTACCATATACTTCTCTCCAGCCAACAAGAAGCTAAATCCAAAGAAATATGAAGGTGGCC
GTGAATTAAGTGATTTTATTAGCTATCTACAAAGAGAAGCTACAAACCCCCCTGTAATTCAAGAAGAAAAACCCA
AGAAGAAGAAGAAGGCACAGGAGGATCTC**TAA**AGCAGTAGCCAAACACCACTTTGTAAAAGGACTCTTCCATCAG
AGATGGGAAAACCATTGGGGAGGACTAGGACCCATATGGGAATTATTACCTCTCAGGGCCGAGAGGACAGAATGG
ATATAATCTGAATCCTGTTAAATTTTCTCTAAACTGTTTCTTAGCTGCACTGTTTATGGAAATACCAGGACCAGT
TTATGTTTGTGGTTTTGGGAAAAATTATTTGTGTTGGGGGAAATGTTGTGGGGGTGGGGTTGAGTTGGGGGTATT
TTCTAATTTTTTTTGTACATTTGGAACAGTGACAATAAATGAGACCCCTTTAAACTGTCAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4175

MRLRRLALFPGVALLLAAARLAAASDVLELTDDNFESRISDTGSAGLMLVEFFAPWCGHCKRLAPEYEAAATRLK
GIVPLAKVDCTANTNTCNKYGVSGYPTLKIFRDGEEAGAYDGPRTADGIVSHLKKQAGPASVPLRTEEEFKKFIS
DKDASIVGFFDDSFSEAHSEFLKAASNLRDNYRFAHTNVESLVNEYDDNGEGIILFRPSHLTNKFEDKTVAYTEQ
KMTSGKIKKFIQENIFGICPHMTEDNKDLIQGKDLLIAYYDVDYEKNAKGSNYWRNRVMMVAKKFLDAGHKLNFA
VASRKTFSHELSDFGLESTAGEIPVVAIRTAKGEKFVMQEEFSRDGKALERFLQDYFDGNLKRYLKSEPIPESND
GPVKVVVAENFDEIVNNENKDVLIEFYAPWCGHCKNLEPKYKELGEKLSKDPNIVIAKMDATANDVPSPYEVRGF
PTIYFSPANKKLNPKKYEGGRELSDFISYLQREATNPPVIQEEKPKKKKKAQEDL

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FIGURE 4176

GGCACGAGGCGGGCCAACCGCCCGGACCTCGGCGCTTTCTTCTAGGATCCGCATGAATCGCTTTGGGCTATCGGA
AGAGCTATCCCCAGTTCTCGGGAGAAAGAGTCCGCGACCAGCGTCTGACCTCTCACTCAGAGTCCCCAGTCCTGC
CTTAGTTTCCCCAGCGACCCTGAATTTGGAGTTGCTGTCTCTAAGTGAAAGCTGAACCTGCAACCCCTTGAGGGT
TTCAGCCGCAGAGGGGCGGGAGAAAGGGCCTGGTTGGTAGGCGGGCTCAGCGGTTCGCGCCCAGTTAGCCCCGAG
CTTCGGAGACCCGAGAGACCAGAGGATGGCTGACACGAAGGGGCACCCGAGACAGCGCCTGGGCTTTTTCCCGCC
CGCGGTTCCACCGCTCTGAAACCGATTTCTAACAGAGAGAGACATAGTCTTGCTCTGTTACCCATGCTGGAGTAC
GGTGGCGAGATCACGACTCACTACAACTTTGAATTCCTGGATTCAAGCAATCCTCCCATCTCAGCCTCCTGAGTA
GCTAAGGACTACAGGGCGACTTTGTCAGTACCCCAAACTGTCCCCGCATGAGGTCACTCTGCACGGTCACGTGCT
CGAGCCCGCGGGAGCGCCACATCGCCAGCCGCACCCCTCCACCCCCACCCTGCCCACGTGACCCGGCCTAGTTTC
TCCAGGCCCGTCCCTACGTCTCACTCGGGAAGCCCCGCCCCACGCTGAGCGCTCCGCCTGCGACCCTCCGCCACT
TACCCACCCCGGCTCAAGCACGACCCGTGGATCCACGTGCTTTTTCTTGTCCAATGGGAGCCGGCTCCCGGGCGC
GAAGGGGCGGGGAGGAAAGGAACGACTGTGCTACGTTGCCAGAAGGGGCGGGACCTGCAACGTCCGACAGAACGA
GGGGACGTAACGGAGGCAGGTTGGAGCCGCTGCCGTCGCCATGACCCGCGGTAACCAGCGTGAGCTCGCCCGCCA
GAAGAATATGAAAAAGCAGAGCGACTCGGTTAAGGGAAAGCGCCGAG<u>ATG</u>ACGGGCTTTCTGCTGCCGCCCGCAA
GCAGAGGGACTCGGAGATCATGCAGCAGAAGCAGAAAAAGGCAAACGAGAAGAAGGAGGAACCCAAGTAGCTTTG
TGGCTTCGTGTCCAACCCTCTTGCCCTTCGCCTGTGTGCCTGGAGCCAGTCCCACCACGCTCGCGTTTCCTCCTG
TAGTGCTCACAGGTCCCAGCACCGATGGCATTCCCTTTGCCCTGAGTCTGCAGCGGGTCCCTTTTGTGCTTCCTT
CCCCTCAGGTAGCCTCTCTCCCCCTGGGCCACTCCCGGGGG<u>TGA</u>GGGGGGTTACCCCTTCCCAGTGTTTTTTATTC
CTGTGGGGCTCACCCCAAAGTATTAAAAGTAGCTTTGTAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4177

MTGFLLPPASRGTRRSCSRSRKRQTRRRRNPSSFVASCPTLLPFACVPGASPTTLAFPPVVLTGPSTDGIPFALS
LQRVPFVLPSPQVASLPLGHSRG

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FIGURE 4178

GGCACGAGCCGAG**ATG**TCTCGCTCCGTGGCCTTAGCTGTGCTCGCGCTACTCTCTCTTTCTGGCCTGGAGGCTAT
CCAGCGTACTCCAAAGATTCAGGTTTACTCACGTCATCCAGCAGAGAATGGAAAGTCAAATTTCCTGAATTGCTA
TGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCA
TTCAGACTTGTCTTTCAGCAAGGACTGGTCTTTCTATCTCTTGTACTACACTGAATTCACCCCCACTGAAAAAGA
TGAGTATGCCTGCCGTGTGAACCATGTGACTTTGTCACAGCCCAAGATAGTTAAGTGGGATCGAGACATG**TAA**GC
AGCATCATGGAGGTTTGAAGATGCCGCATTTGGATTGGATGAATTCCAAATTCTGCTTGCTTGCTTTTTAATATT
GATATGCTTATACACTTACACTTTATGCACAAAATGTAGGGTTATAATAATGTTAACATGGACATGATCTTCTTT
ATAATTCTACTTTGAGTGCTGTCTCCATGTTTGATGTATCTGAGCAGGTTGCTCCACAGGTAGCTCTAGGAGGGC
TGGCAACTTAGAGGTGGGGAGCAGAGAATTCTCTTATCCAACATCAACATCTTGGTCAGATTTGAACTCTTCAAT
CTCTTGCACTCAAAGCTTGTTAAGATAGTTAAGCGTGCATAAGTTAACTTCCAATTTACATACTCTGCTTAGAAT
TTGGGGGAAAATTTAGAAATATAATTGACAGGATTATTGGAAATTTGTTATAATGAATGAAACATTTTGTCATAT
AAGATTCATATTTACTTCTTATACATTTGATAAAGTAAGGCATGGTTGTGGTTAATCTGGTTTATTTTTGTTCCA
CAAGTTAAATAAATCATAAAACTTG

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FIGURE 4179

MSRSVALAVLALLSLSGLEAIQRTPKIQVYSRHPAENGKSNFLNCYVSGFHPSDIEVDLLKNGERIEKVEHSDLS
FSKDWSFYLLYYTEFTPTEKDEYACRVNHVTLSQPKIVKWDRDM

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FIGURE 4180

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GTATATATGTGATTCAGATATGTATTTCTGACTTGAAGTGAAATATGCTGGAAAACTCACACAACTATGGGAGAA
CTATCCTATCCCTGAACCAGGCCCAAATGAGGTCTTGCTGAGGATGCATTCTGTTGGAATCTGTGGCTCAGATGT
CCACTACTGGGAGTATGGTCGAATTGGGAATTTTATTGTGAAAAAGCCCATGGTGCTGGGACATGAAGCTTCGGG
AACAGTCGAAAAAGTGGGATCATCGGCAAAGCACCTAAAACCAGGTGATCGTGTTGCCATCGAATCTGGTGCTCC
CCGAGAAAATGATGAATTCTGCAAGATGGGCCGATACAATCTGTCACCTTCCATCTTCTTCTGTGCCACACCCCC
CGATGATGGGAACCTCTGCCGGTTCTATAAGCACAATGCAGCCTTTTGTTACAAGCTTCCTGACAATGTCACCTT
TGAGGAAGGCGCCCTGATTGATCCACTTTCTGTGGGGATCCATGCCTGCAGGAGAGGCGGAGTTACCCTGGGACA
CAAGGTCCTTGTGTGTGGAGCTGGGGCAATCGGGGTAGTCACTTTGCTCGTGGCCAAGGCAATGGGAGCAGCTCA
AGTAGTGGTGACTGATCTGTCTGCTACCCGATTGTCCAAAGCCAAGGAGATTGGGGCTGATTTAGTCCTCCAGAT
CTCCAAGGAGAGCCCTCAGGAAATCGCCAGGAAAGTAGAAGGTCTGCTGGGGTGCAAGCCGGAAGTCACCATCGA
GTGCACGGGGCAGAGGCCTCCATCCAGGCAGGCATCTACGCCACTCGCTCTGGTGGGAACCTCGTGCTTGTGGGG
CTGGGCTCTGAGATGACCACCGTACCCCT
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FIGURE 4181

MHSVGICGSDVHYWEYGRIGNFIVKKPMVLGHEASGTVEKVGSSAKHLKPGDRVAIESGAPRENDEFCKMGRYNL
SPSIFFCATPPDDGNLCRFYKHNAAFCYKLPDNVTFEEGALIDPLSVGIHACRRGGVTLGHKVLVCGAGAIGVVT
LLVAKAMGAAQVVVTDLSATRLSKAKEIGADLVLQISKESPQEIARKVEGLLGCKPEVTIECTGQRPPSRQASTP
LALVGTSCLWGWALR

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FIGURE 4182

CGCACGGCCGCGCAGATCTGTCTTGCTGGAAGCTTTTTCCTAGAGGTTGAGCGGTTTGCACAATGTCGGAAATGG
CTGAGTTGTCCGAGCTGTATGAAGAGAGCAGTGACCTGCAGATGGATGTGATGCCTGGCGAGGGTGACCTTCCGC
AGATGGAGGTAGGCAGCGGGAGCCGGGAGCTATCCCTGCGTCCCTCCCGCAGCGGGGCCCAACAGCTCGAGGAGG
AAGGCCCAATGGAGGAGGAGGAGGCCCAGCCAATGGCGGCGCCAGAGGGGAAACGGAGCCTTGCTAACGGGCCCA
ACGCTGGGGAGCAGCCAGGCCAGGTGGCGGGCGCAGACTTCGAGAGCGAGGACGAGGGCGAGGAATTTGATGACT
GGGAGGACGACTACGACTATCCCGAAGAGGAGCAGCTCAGTGGTGCCGGCTACAGAGTATCAGCCGCTCTTGAAG
AAGCCGACAAGATGTTTCTGAGAACAAGAGAACCAGCCCTGGATGGCGGGTTTCAGATGCATTATGAGAAGACCC
CGTTTGATCAGTTAGCTTTTATCGAAGAGCTTTTTTCACTGATGGTTGTCAATCGTCTGACCGAAGAACTCGGCT
GTGATGAGATTATTGATAGAGAGTAGTTAGATGCTGTTAAAAGAGGAGGAAACTACTTGAGGAGGGACCCAACTT
TCCGCTATCTTTTGGGTTCATTCCAAATAGTTTTGTGCCATTGAAAAACTTGACCTTCAAAAAAATTTGTTTTTC
AGAATAGAACACAATAGGACAGTGACTGCACAGTTGTGAAAAAGGAAGAGAATCATTAAAGAAAAAGAAAAAAGA
TTTTAAGACCGTTGAAATCAATTATCAAGAACGTCCTAAAACACCTATGGCTTTGACTTTGTTATTGATCCAGAT
TATTTTCCTTGCATTGGGGAAAAATATCTTTCATATTTGTTTGCTGTAAAGATGGTTTTGCAAGAATAAGTCATGA
CCAAGACAAACTGCCAATACAAAAGCCCACTGATACTAATTATATAATGAGAAAAAAATGTATCCAACTAGGACA
CATATCTTTTGAGTTATTTGGACTGAAAGCTTAAGAAAACTTGGAAAATTCTATTTTGTGATCTAGTCAAGCCAC
AGTTATCAAAGGCTACATTTTCAGTGTAAGATAAATGGATGAGTAAACTCAAATATGTATCACGTGTGCTTTGTA
TCTTAAGATGTGTTTCCAAGAGCATCTGAAATTTTGTTTGTACATGTATCTTGATCATTTATAAAGCCACTGTGA
TCTATAAATCAAGAAAATCCATTGTCATAACCATTTTTAAAAGTCAAAAATTAAGACATCCTTAATTAAAAAGTT
TCAAATCTAGACACTAAATGTGTGTGAATGTACAAAGAAAACAAACCATTGCTTATGCTGTTATATACTAGAGAA
ATTTTGTTTTGCTTGCTGTTTTAACTTGACAGATGAAGGACTTTAGTTGAACTTCATATTGTAAGAACTGTTAAT
AAAAGTTGTCAAGTAAAAAGCGCTATATCTAAAAAGACTTTATGAACAGTTATTCTATCAACTTTTAAAGGTTTT
AAACCTGCCCAGAAATTACCTTGGTATCTGAAGTTTCCCTCTGTCTCCTCCTCTAATTAAGCTTGTTATTTGTCA
TGCACCAGCATTGGAGATAATAAAATTTCTTGTTCTGTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4183

MSEMAELSELYEESSDLQMDVMPGEGDLPQMEVGSGSRELSLRPSRSGAQQLEEEGPMEEEEAQPMAAPEGKRSL
ANGPNAGEQPGQVAGADFESEDEGEEFDDWEDDYDYPEEEQLSGAGYRVSAALEEADKMFLRTREPALDGGFQMH
YEKTPFDQLAFIEELFSLMVVNRLTEELGCDEIIDRE

FIGURE 4184A

GAGCCCGGCCCGGGGGACGGGCGGCGGGATAGCGGGACCCCGGCGGCGCGGTGCGCTTCAGGGCGCAGCGGCGGC
CGCAGACCGAGCCCCGGGCGCGGCAAGAGGCGGCGGGAGCCGGTGGCGGCTCGGCATC**ATG**CGTCGAGGGCGTCT
GCTGGAGATCGCCCTGGGATTTACCGTGCTTTTAGCGTCCTACACGAGCCATGGGGCGGACGCCAATTTGGAGGC
TGGGAACGTGAAGGAAACCAGAGCCAGTCGGGCCAAGAGAAGAGGCGGTGGAGGACACGACGCGCTTAAAGGACC
CAATGTCTGTGGATCACGTTATAATGCTTACTGTTGCCCTGGATGGAAAACCTTACCTGGCGGAAATCAGTGTAT
TGTCCCCATTTGCCGGCATTCCTGTGGGGATGGATTTTGTTCGAGGCCAAATATGTGCACTTGCCCATCTGGTCA
GATAGCTCCTTCCTGTGGCTCCAGATCCATACAACACTGCAATATTCGCTGTATGAATGGAGGTAGCTGCAGTGA
CGATCACTGTCTATGCCAGAAAGGATACATAGGGACTCACTGTGGACAACCTGTTTGTGAAAGTGGCTGTCTCAA
TGGAGGAAGGTGTGTGGCCCCAAATCGATGTGCATGCACTTACGGATTTACTGGACCCCAGTGTGAAAGAGATTA
CAGGACAGGCCCATGTTTTACTGTGATCAGCAACCAGATGTGCCAGGGACAACTCAGCGGGATTGTCTGCACAAA
AACGCTCTGCTGTGCCACAGTCGGCCGAGCCTGGGGCCACCCCTGTGAGATGTGTCCTGCCCAGCCTCACCCCTG
CCGCCGTGGCTTCATTCCAAATATCCGCACGGGAGCTTGTCAAGATGTGGATGAATGCCAGGCCATCCCCGGGCT
CTGTCAGGGAGGAAATTGCATTAATACTGTTGGGTCTTTTGAGTGCAAATGCCCTGCTGGACACAAACTTAATGA
AGTGTCACAAAAATGTGAAGATATTGATGAATGCAGCACCATTCCTGGAATCTGTGAAGGGGGTGAATGTACAAA
CACAGTCAGCAGTTACTTTTGCAAATGTCCCCCTGGTTTTTACACCTCTCCAGATGGTACCAGATGCATAGATGT
TCGCCCAGGATACTGTTACACAGCTCTGACAAACGGGCGCTGCTCTAACCAGCTGCCACAGTCCATAACCAAAAT
GCAGTGCTGCTGTGATGCCGGCCGATGCTGGTCTCCAGGGGTCACTGTCGCCCCTGAGATGTGTCCCATCAGAGC
AACCGAGGATTTCAACAAGCTGTGCTCTGTTCCTATGGTAATTCCTGGGAGACCAGAATATCCTCCCCCACCCCT
TGGCCCCATTCCTCCAGTTCTCCCTGTTCCTCCTGGCTTTCCTCCTGGACCTCAAATTCCGGTCCCTCGACCACC
AGTGGAATATCTGTATCCATCTCGGGAGCCACCAAGGGTGCTGCCAGTAAACGTTACTGATTACTGCCAGTTGGT
CCGCTATCTCTGTCAAAATGGACGCTGCATTCCAACTCCTGGGAGTTGCCGGTGTGAGTGCAACAAAGGGTTCCA
GCTGGACCTCCGTGGGGAGTGTATTGATGTTGATGAATGTGAGAAAAACCCCTGTGCTGGTGGTGAGTGTATTAA
CAACCAGGGTTCGTACACCTGTCAGTGCCGAGCTGGATATCAGAGCACACTCACGCGGACAGAATGCCGAGACAT
TGATGAGTGTTTACAGAATGGCCGGATCTGCAATAATGGACGCTGCATCAACACAGATGGCAGTTTTCATTGCGT
GTGTAATGCGGGCTTTCATGTTACACGAGATGGGAAGAACTGTGAAGATATGGATGAATGCAGCATAAGGAACAT
GTGCCTTAATGGAATGTGTATCAATGAAGATGGCAGTTTTAAATGTATTTGCAAACCTGGATTCCAGCTGGCATC
AGATGGACGTTATTGCAAAGACATTAACGAGTGTGAAACCCCTGGGATCTGCATGAATGGGCGTTGCGTCAACAC
TGATGGCTCCTACAGATGTGAATGCTTCCCTGGACTGGCTGTGGGTCTGGATGGCCGTGTGTGTGTTGACACACA
CATGCGGAGCACATGCTATGGTGGATACAAGAGAGGCCAGTGTATCAAACCTTTGTTTGGTGCTGTCACTAAATC
TGAATGCTGTTGCGCCAGCACTGAGTATGCATTTGGGGAACCTTGCCAGCCGTGTCCTGCACAGAATTCAGCGGA
ATATCAGGCACTCTGCAGCAGTGGGCCAGGAATGACGTCAGCAGGCAGTGATATAAATGAATGTGCACTAGATCC
TGATATTTGCCCAAATGGAATCTGTGAAAACCTTCGTGGGACCTATAAATGTATATGCAATTCAGGATATGAAGT
GGATTCAACTGGGAAAAACTGCGTTGATATTAATGAATGTGTACTGAACAGTCTCCTTTGTGACAATGGACAATG
TAGAAATACTCCTGGAAGTTTTGTCTGTACCTGCCCCAAGGGATTTATCTACAAACCTGATCTAAAAACATGTGA
AGACATTGATGAATGCGAATCAAGTCCTTGCATTAATGGAGTCTGCAAGAACAGCCCAGGCTCTTTTATTTGTGA
ATGTTCTTCTGAAAGTACTTTGGATCCAACAAAAACCATCTGCATAGAAACCATCAAGGGCACTTGCTGGCAGAC
TGTCATTGATGGGCGATGTGAGATCAACATCAATGGAGCCACCTTAAAGTCCCAGTGCTGCTCCTCCCTCGGTGC
TGCGTGGGGAAGCCCGTGCACCCTATGCCAAGTTGATCCCATATGTGGTAAAGGGTACTCAAGAATTAAAGGAAC
ACAATGTGAAGATATAGATGAATGTGAAGTGTTCCCAGGAGTGTGTAAAAATGGCCTGTGTGTTAACACTAGGGG
GTCATTCAAGTGTCAGTGTCCCAGTGGAATGACTTTGGATGCCACAGGAAGGATCTGTCTTGATATCCGCCTGGA
AACCTGCTTCCTGAGGTACGAGGACGAGGAGTGCACCCTGCCTATTGCTGGCCGCCACCGCATGGACGCCTGCTG
CTGCTCCGTCGGGGCAGCCTGGGGTACTGAGGAATGCGAGGAGTGTCCCATGAGAAATACTCCTGAGTACGAGGA
GCTGTGTCCGAGAGGACCCGGATTTGCCACAAAAGAAATTACAAATGGAAAGCCTTTCTTCAAAGATATCAATGA
GTGCAAGATGATACCCAGCCTCTGCACCCACGGCAAGTGCAGAAACACCATTGGCAGCTTTAAGTGCAGGTGTGA
CAGCGGCTTTGCTCTTGATTCTGAAGAAAGGAACTGCACAGACATTGACGAATGCCGCATATCTCCTGACCTCTG
TGGCAGAGGCCAGTGTGTGAACACCCCTGGGGACTTTGAATGCAAGTGTGACGAAGGCTATGAAAGTGGATTCAT
GATGATGAAGAACTGCATGGATATTGATGAGTGTCAGAGAGATCCTCTCCTATGCCGAGGTGGTGTTTGCCATAA
CACAGAGGGAAGTTACCGCTGTGAATGCCCGCCTGGCCATCAGCTGTCCCCCAACATCTCCGCGTGTATCGACAT

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FIGURE 4184B

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CAATGAATGTGAGCTGAGTGCACACCTGTGCCCCAATGGCCGTTGCGTGAACCTCATAGGGAAGTATCAGTGTGC
CTGCAACCCTGGCTACCATTCAACTCCCGATAGGCTATTTTGTGTTGACATTGATGAATGCAGCATAATGAATGG
TGGTTGTGAAACCTTCTGCACAAACTCTGAAGGCAGCTATGAATGTAGCTGTCAGCCGGGATTTGCACTAATGCC
TGACCAGAGATCATGCACCGACATCGATGAGTGTGAAGATAATCCCAATATCTGTGATGGTGGTCAGTGCACAAA
TATCCCTGGAGAGTACAGGTGCTTGTGTTATGATGGATTCATGGCATCTGAAGACATGAAGACTTGTGTAGATGT
CAATGAGTGTGACCTGAATCCAAATATCTGCCTAAGTGGGACCTGTGAAAACACGAAAGGCTCATTTATCTGCCA
CTGTGATATGGGCTACTCCGGCAAAAAAGGAAAAACTGGCTGTACAGACATCAATGAATGTGAAATTGGAGCACA
CAACTGTGGCAAACATGCTGTATGTACCAATACAGCAGGAAGCTTCAAATGTAGCTGCAGTCCCGGGTGGATTGG
AGATGGCATTAAGTGCACTGATCTGGACGAATGTTCCAATGGAACCCATATGTGCAGCCAGCATGCAGACTGCAA
GAATACCATGGGATCTTACCGCTGTCTGTGCAAGGAAGGATACACAGGTGATGGCTTCACTTGTACAGACCTTGA
TGAGTGCTCTGAGAACCTGAATCTCTGTGGCAATGGCCAGTGCCTCAATGCACCAGGAGGATACCGCTGTGAATG
CGACATGGGCTTCGTGCCCAGTGCTGACGGGAAAGCCTGTGAAGATATTGATGAGTGCTCCCTTCCGAACATCTG
TGTCTTTGGAACTTGCCACAACCTCCCTGGCCTGTTCCGCTGTGAGTGTGAGATAGGCTACGAACTGGACAGAAG
CGGCGGGAACTGCACAGATGTGAATGAATGCCTGGATCCAACCACGTGCATCAGTGGGAACTGTGTCAACACTCC
AGGCAGCTATATCTGTGACTGCCCACCTGATTTTGAACTGAACCCAACTCGAGTTGGCTGTGTTGATACCCGCTC
TGGAAATTGCTATTTGGATATTCGACCTCGAGGAGACAATGGAGATACAGCCTGCAGCAATGAAATTGGAGTTGG
TGTTTCCAAAGCTTCCTGCTGCTGTTCTCTGGGTAAAGCCTGGGGTACTCCTTGTGAGATGTGTCCTGCTGTGAA
CACATCCGAGTACAAAATTCTTTGTCCTGGAGGGGAAGGTTTCCGACCAAATCCTATCACCGTTATATTGGAAGA
TATTGATGAGTGCCAGGAGCTACCAGGGCTGTGCCAAGGAGGAAAATGTATCAACACCTTTGGGAGTTTCCAGTG
CCGCTGTCCAACCGGCTACTACCTGAATGAAGATACACGAGTGTGTGATGATGTGAATGAATGTGAGACTCCTGG
AATCTGTGGTCCAGGGACATGTTACAACACCGTTGGCAACTACACCTGTATCTGTCCTCCAGACTACATGCAAGT
GAATGGGGGAAATAATTGCATGGATATGAGAAGAAGTTTGTGCTACAGAAACTACTATGCTGACAACCAGACCTG
TGATGGAGAATTGTTATTCAACATGACCAAGAAGATGTGCTGCTGTTCCTACAACATTGGCCGGGCGTGGAACAA
GCCCTGTGAACAGTGTCCCATCCCAAGTACAGATGAGTTTGCTACACTCTGTGGAAGTCAAAGGCCAGGCTTTGT
CATCGACATTTATACCGGTTTACCCGTTGATATTGATGAGTGCCGGGAGATCCCAGGGGTCTGTGAAAATGGAGT
GTGTATCAACATGGTTGGCAGCTTCCGATGTGAATGTCCAGTGGGATTCTTCTATAATGACAAGTTGTTGGTTTG
TGAAGATATTGACGAGTGTCAGAACGGCCCAGTGTGCCAGCGCAACGCCGAATGCATCAACACTGCAGGCAGCTA
CCGCTGTGACTGTAAGCCCGGCTACCGCTTCACCTCCACAGGACAGTGCAATGATCGTAATGAATGTCAAGAAAT
CCCCAATATATGCAGTCATGGGCAGTGCATTGACACAGTTGGAAGCTTTTATTGCCTTTGCCACACTGGTTTTAA
AACAAATGATGACCAAACCATGTGCTTGGACATAAATGAATGTGAAAGAGATGCCTGTGGGAATGGAACTTGCCG
GAACACAATTGGTTCCTTCAACTGCCGCTGCAATCATGGTTTCATCCTTTCTCACAACAATGACTGTATAGATGT
TGATGAATGTGCAAGTGGAAATGGGAATCTTTGCAGAAATGGCCAATGCATTAATACAGTGGGGTCTTTCCAGTG
CCAGTGCAATGAAGGCTATGAGGTGGCTCCAGATGGGAGGACCTGTGTGGATATCAATGAATGTCTTCTAGAACC
CAGAAAATGTGCACCAGGTACCTGTCAAAACTTGGATGGGTCCTACAGATGCATTTGCCCACCTGGATACAGTCT
TCAAAATGAGAAGTGTGAAGATATTGATGAGTGTGTCGAAGAGCCAGAAATTTGTGCCCTGGGCACATGCAGTAA
CACTGAAGGCAGCTTCAAATGTCTGTGTCCAGAAGGGTTTTCCTTGTCCTCCAGTGGAAGAAGGTGCCAAGATTT
GCGAATGAGCTACTGTTATGCGAAGTTTGAAGGAGGAAAGTGTTCATCACCCAAATCCAGAAATCACTCCAAGCA
GGAATGCTGCTGTGCCTTGAAGGGAGAAGGCTGGGGAGACCCCTGCGAGCTCTGCCCCACGGAACCTGATGAGGC
CTTCCGCCAGATATGTCCTTATGGAAGTGGGATCATCGTGGGACCTGATGATTCAGCAGTTGATATGGACGAATG
CAAAGAACCCGATGTCTGTAAACATGGACAGTGCATCAATACAGATGGTTCCTATCGCTGCGAGTGTCCCTTTGG
TTATATTCTAGCAGGGAATGAATGTGTAGATACTGATGAATGTTCTGTTGGCAATCCTTGTGGAAATGGAACCTG
CAAGAATGTGATTGGAGGTTTTGAATGCACCTGCGAGGAGGGATTTGAGCCCGGTCCAATGATGACATGTGAAGA
TATAAATGAATGTGCCCAGAATCCTCTGCTCTGTGCCTTCCGATGTGTGAACACTTATGGGTCATATGAATGCAA
ATGTCCCGTGGGATATGTGCTCAGAGAAGACCGTAGGATGTGCAAAGATGAGGATGAGTGTGAAGAGGGAAAACA
TGACTGTACTGAAAAACAAATGGAATGCAAGAACCTCATTGGCACATATATGTGCATCTGTGGACCCGGGTATCA
GCGGAGACCTGATGGAGAAGGCTGTGTAGATGAGAATGAATGTCAGACGAAGCCAGGGATCTGTGAGAATGGGCG
CTGCCTCAACACCCGTGGGAGCTACACCTGTGAGTGTAATGATGGGTTTACCGCCAGCCCCAACCAGGACGAGTG
CCTTGACAATCGGGAAGGGTACTGCTTCACAGAGGTGCTACAAAACATGTGTCAGATCGGCTCCAGCAACAGGAA
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FIGURE 4184C

CCCCGTCACCAAATCGGAATGCTGCTGTGACGGAGGGAGAGGCTGGGGTCCCCACTGTGAGATCTGCCCTTTCCA
GGGGACTGTGGCTTTCAAGAAACTCTGTCCCCATGGCCGAGGATTCATGACCAATGGAGCAGATATCGATGAATG
CAAGGTTATTCACGATGTTTGCCGAAATGGGGAATGTGTCAATGACAGAGGATCATATCATTGCATTTGTAAAAC
TGGGTACACTCCAGATATAACTGGGACTTCCTGTGTAGATCTGAACGAGTGCAACCAGGCTCCCAAACCCTGCAA
TTTTATCTGCAAAAACACAGAAGGGAGTTACCAGTGTTCATGCCCGAAAGGCTACATTCTGCAAGAGGATGGAAG
GAGCTGCAAAGATCTTGATGAGTGTGCAACCAAGCAACACAACTGCCAGTTCCTATGTGTTAACACCATTGGCGG
CTTCACATGCAAATGTCCTCCCGGATTTACCCAACACCATACGTCCTGCATTGATAACAATGAATGCACCTCTGA
CATCAATCTGTGCGGGTCTAAGGGCATTTGCCAGAACACTCCTGGAAGCTTCACCTGTGAATGCCAGCGGGGATT
CTCACTTGATCAGACCGGCTCCAGCTGTGAAGACGTGGACGAGTGTGAGGGTAACCACCGCTGCCAGCATGGCTG
CCAGAACATCATTGGGGGCTACAGGTGCAGCTGCCCCCAGGGCTACCTCCAGCACTACCAGTGGAACCAGTGTGT
TGATGAAAACGAATGCCTCAGCGCTCACATCTGCGGAGGAGCCTCCTGTCACAACACCCTGGGGAGCTACAAGTG
CATGTGTCCCGCCGGCTTCCAGTATGAACAGTTCAGTGGAGGATGCCAAGACATCAATGAATGTGGCTCTGCGCA
GGCCCCCTGCAGCTATGGCTGTTCCAATACCGAGGGCGGTTACCTGTGTGGCTGTCCACCTGGTTACTTCCGCAT
AGGCCAAGGGCACTGTGTTTCTGGAATGGGCATGGGCCGAGGAAACCCAGAGCCACCTGTCAGTGGTGAAATGGA
TGACAATTCACTCTCCCCAGAGGCTTGTTACGAGTGTAAGATCAATGGCTACCCCAAACGGGGCAGGAAACGGAG
AAGCACAAACGAAACTGATGCCTCCAATATCGAGGATCAGTCTGAGACAGAAGCCAATGTGAGTCTTGCAAGTTG
GGATGTTGAGAAGACAGCCATCTTTGCTTTCAATATTTCCCACGTCAGTAACAAGGTTCGAATCCTAGAACTCCT
TCCAGCTCTTACAACTCTGACGAATCACAACAGATACTTGATCGAATCTGGAAATGAAGATGGCTTCTTTAAAAT
CAACCAAAAGGAAGGGATCAGCTACCTCCACTTCACAAAGAAGAAGCCAGTGGCTGGAACCTATTCATTACAAAT
CAGTAGTACTCCACTTTATAAAAAGAAAGAACTTAACCAACTAGAAGACAAATATGACAAAGACTACCTCAGTGG
TGAACTGGGTGATAATCTGAAGATGAAAATCCAGGTTTTGCTTCAT**TAA**TTCACCATCCAGAGACCAAATAATTA
AAAGAAAAACAAATATAGATAGGTAGAACTATATTTTCCCCCAATCAGAATCATCATATCATAGGTACAATCTTT
CACCAAGTAAATTTGTATAAATAAGCACTATTCTTGTATTACCAAAGCAAGGTACAGGTGACTACCCTAGTTCA
AAACAACCACTTTCTCAGGCTTCTCATGTGTGTAGCTAAGCTACCTTGTCATATGTGTTGATTCTTGAAAACTGG
GACGTGTATTTCCATTGGGGGGTTGGCCATTTATGCTGACATGCCATCCTTCCAGCAAACGTACGGGAATGTGCTT
TCAATTGATGGACTACTCTATTTTTTGCAAATTTGTAAACTTTGCTTCTCCAAATACAAGTACTAGGTTGTCCAT
TTATGGTACCTATTTGGTGCTAGTAAATTTTCAAACTAGATTTATAAATGCACTGTAATATGTACACAACTTAGA
AACCAAATTACAAGTATTCAGTTCCAATACTTCATTAATTTCAATCAACCAAAGTTAGTTCAGTAGCTTATCTCA
GTTATGAGTATAATACATTACATGTAAATTAAGTGTGTGTATACTGTAATCGTGCTATTTTTTATCATTGAAACA
TTTATAAACTAGAATAATAATGCCCTTAATGTGAGGGTTTGTAATGGTGCTTATTAAGACCAAAGACTTGTTAAA
TGTATACACCAAGTGGTAATGAAATTTCGGTGACTGGCCCACACGTGCATAGAGGTCTGGGAGGACCAGGAAACA
GCCTCAGTGGCCAGAGGATCACCAGTGCATCCTTCATCACAGCATGTGCAATATGCCAAGATTACCCTCGGTCAT
TCCTGTCAACAAGGGGTCAATGTCATAAATGTCACAATAAAACAATCTCTTCTTTTTTTAGTTT

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FIGURE 4185

MRRGRLLEIALGFTVLLASYTSHGADANLEAGNVKETRASRAKRRGGGGHDALKGPNVCGSRYNAYCCPGWKTLP
GGNQCIVPICRHSCGDGFCSRPNMCTCPSGQIAPSCGSRSIQHCNIRCMNGGSCSDDHCLCQKGYIGTHCGQPVC
ESGCLNGGRCVAPNRCACTYGFTGPQCERDYRTGPCFTVISNQMCQGQLSGIVCTKTLCCATVGRAWGHPCEMCP
AQPHPCRRGFIPNIRTGACQDVDECQAIPGLCQGGNCINTVGSFECKCPAGHKLNEVSQKCEDIDECSTIPGICE
GGECTNTVSSYFCKCPPGFYTSPDGTRCIDVRPGYCYTALTNGRCSNQLPQSITKMQCCCDAGRCWSPGVTVAPE
MCPIRATEDFNKLCSVPMVIPGRPEYPPPPLGPIPPVLPVPPGFPPGPQIPVPRPPVEYLYPSREPPRVLPVNVT
DYCQLVRYLCQNGRCIPTPGSCRCECNKGFQLDLRGECIDVDECEKNPCAGGECINNQGSYTCQCRAGYQSTLTR
TECRDIDECLQNGRICNNGRCINTDGSFHCVCNAGFHVTRDGKNCEDMDECSIRNMCLNGMCINEDGSFKCICKP
GFQLASDGRYCKDINECETPGICMNGRCVNTDGSYRCECFPGLAVGLDGRVCVDTHMRSTCYGGYKRGQCIKPLF
GAVTKSECCCASTEYAFGEPCQPCPAQNSAEYQALCSSGPGMTSAGSDINECALDPDICPNGICENLRGTYKCIC
NSGYEVDSTGKNCVDINECVLNSLLCDNGQCRNTPGSFVCTCPKGFIYKPDLKTCEDIDECESSPCINGVCKNSP
GSFICECSSESTLDPTKTICIETIKGTCWQTVIDGRCEININGATLKSQCCSSLGAAWGSPCTLCQVDPICGKGY
SRIKGTQCEDIDECEVFPGVCKNGLCVNTRGSFKCQCPSGMTLDATGRICLDIRLETCFLRYEDEECTLPIAGRH
RMDACCCSVGAAWGTEECEECPMRNTPEYEELCPRGPGFATKEITNGKPFFKDINECKMIPSLCTHGKCRNTIGS
FKCRCDSGFALDSEERNCTDIDECRISPDLCGRGQCVNTPGDFECKCDEGYESGFMMMKNCMDIDECQRDPLLCR
GGVCHNTEGSYRCECPPGHQLSPNISACIDINECELSAHLCPNGRCVNLIGKYQCACNPGYHSTPDRLFCVDIDE
CSIMNGGCETFCTNSEGSYECSCQPGFALMPDQRSCTDIDECEDNPNICDGGQCTNIPGEYRCLCYDGFMASEDM
KTCVDVNECDLNPNICLSGTCENTKGSFICHCDMGYSGKKGKTGCTDINECEIGAHNCGKHAVCTNTAGSFKCSC
SPGWIGDGIKCTDLDECSNGTHMCSQHADCKNTMGSYRCLCKEGYTGDGFTCTDLDECSENLNLCGNGQCLNAPG
GYRCECDMGFVPSADGKACEDIDECSLPNICVFGTCHNLPGLFRCECEIGYELDRSGGNCTDVNECLDPTTCISG
NCVNTPGSYICDCPPDFELNPTRVGCVDTRSGNCYLDIRPRGDNGDTACSNEIGVGVSKASCCCSLGKAWGTPCE
MCPAVNTSEYKILCPGGEGFRPNPITVILEDIDECQELPGLCQGGKCINTFGSFQCRCPTGYYLNEDTRVCDDVN
ECETPGICGPGTCYNTVGNYTCICPPDYMQVNGGNNCMDRRSLCYRNYYADNQTCDGELLFNMTKKMCCCSYNI
GRAWNKPCEQCPIPSTDEFATLCGSQRPGFVIDIYTGLPVDIDECREIPGVCENGVCINMVGSFRCECPVGFFYN
DKLLVCEDIDECQNGPVCQRNAECINTAGSYRCDCKPGYRFTSTGQCNDRNECQEIPNICSHGQCIDTVGSFYCL
CHTGFKTNDDQTMCLDINECERDACGNGTCRNTIGSFNCRCNHGFILSHNNDCIDVDECASGNGNLCRNGQCINT
VGSFQCQCNEGYEVAPDGRTCVDINECLLEPRKCAPGTCQNLDGSYRCICPPGYSLQNEKCEDIDECVEEPEICA
LGTCSNTEGSFKCLCPEGFSLSSSGRRCQDLRMSYCYAKFEGGKCSSPKSRNHSKQECCCALKGEGWGDPCELCP
TEPDEAFRQICPYGSGIIVGPDDSAVDMDECKEPDVCKHGQCINTDGSYRCECPFGYILAGNECVDTDECSVGNP
CGNGTCKNVIGGFECTCEEGFEPGPMMTCEDINECAQNPLLCAFRCVNTYGSYECKCPVGYVLREDRRMCKDEDE
CEEGKHDCTEKQMECKNLIGTYMCICGPGYQRRPDGEGCVDENECQTKPGICENGRCLNTRGSYTCECNDGFTAS
PNQDECLDNREGYCFTEVLQNMCQIGSSNRNPVTKSECCCDGGRGWGPHCEICPFQGTVAFKKLCPHGRGFMTNG
ADIDECKVIHDVCRNGECVNDRGSYHCICKTGYTPDITGTSCVDLNECNQAPKPCNFICKNTEGSYQCSCPKGYI
LQEDGRSCKDLDECATKQHNCQFLCVNTIGGFTCKCPPGFTQHHTSCIDNNECTSDINLCGSKGICQNTPGSFTC
ECQRGFSLDQTGSSCEDVDECEGNHRCQHGCQNIIGGYRCSCPQGYLQHYQWNQCVDENECLSAHICGGASCHNT
LGSYKCMCPAGFQYEQFSGGCQDINECGSAQAPCSYGCSNTEGGYLCGCPPGYFRIGQGHCVSGMGMGRGNPEPP
VSGEMDDNSLSPEACYECKINGYPKRGRKRRSTNETDASNIEDQSETEANVSLASWDVEKTAIFAFNISHVSNKV
RILELLPALTTLTNHNRYLIESGNEDGFFKINQKEGISYLHFTKKKPVAGTYSLQISSTPLYKKKELNQLEDKYD
KDYLSGELGDNLKMKIQVLLH

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FIGURE 4186

AAGATGCTGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCTGCAGTCGTGAAGAAGCAGGAGGCT
AAGAAAGTGGTGAATCCCGTTTGAGCAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCAAAAGAGA
CCTCACCCGCTTTGTGAAATGGCCCCACTATATCAGGCTGCTGGCAAAGGGGATGTCCCCACGAAGAGACCACCT
GTCCTTCGAGCAGGAGTTGACACCGTCACCACCTTGGTGGACAATAAGAAAGCTCAGCTGGTGCTGATTGCACAC
GACGTGGATCCCATCGAGCTGGTTGTCTTCTTGCCTGCCCTGTGTCGTAAAATGGGGGTCCCTTACTGCATTATC
AAGGGGAAGGCAAGACTGGGACGTCTAGTCCACAGGAAGACCTGCACCACTGTGGCCTTCACACAGGTGAACTCG
GAAGACAAAGGCGCTTTGGCTAAGCTGGTGGAAGCTATCAGGACCAATTACAACGACAGATACGATGAGATCCGC
CGTCACTGGGGCGGCAACGTCCTGGATCCTAAGTCTGTGGCTCGCATCGCCAAGCTCGAAAAGGCAAAGGCTAAA
GAACTTGCCACTAAATTGGGTTAAATGTACACTGTTGAGTTTTCTGTACATAAAATAATTAAAATAATATAAATT
TTCCTTC

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FIGURE 4187

GGCACGAGGCCCCTGCGTGCGGCGCTTCTCCCAGGCCCCACCTTCCATCCAGTGCCCTGGACCCTCGGCTGGGTA
GCGCCACCAGAGCGACCAAACGTCCCGCGCCTTCCAGGCCGCACTCCAGAGCCAAAAGAGCTCC<u>ATG</u>GCGGCGGC
GGCCAAGCCCAACAACCTTTCCCTGGTGGTGCACGGACCGGGGGACTTGCGCCTGGAGAACTATCCTATCCCTGA
ACCAGGCCCAAATGAGGTCTTGCTGAGGATGCATTCTGTTGGAATCTGTGGCTCAGATGTCCACTACTGGGAGTA
TGGTCGAATTGGGAATTTTATTGTGAAAAAGCCCATGGTGCTGGGACATGAAGCTTCGGGAACAGTCGAAAAAGT
GGGATCATCGGTAAAGCACCTAAAACCAGGTGATCGTGTTGCCATCGAGCCTGGTGCTCCCCGAGAAAATGATGA
ATTCTGCAAGATGGGCCGATACAATCTGTCACCTTCCATCTTCTTCTGTGCCACGCCCCCCGATGACGGGAACCT
CTGCCGGTTCTATAAGCACAATGCAGCCTTTTGTTACAAGCTTCCTGACAATGTCACCTTTGAGGAAGGCGCCCT
GATCGAGCCACTTTCTGTGGGGATCCATGCCTGCAGGAGAGGCGGAGTTACCCTGGGACACAAGGTCCTTGTGTG
TGGAGCTGGGCCAATCGGGATGGTCACTTTGCTCGTGGCCAAAGCAATGGGAGCAGCTCAAGTAGTGGTGACTGA
TCTGTCTGCTACCCGATTGTCCAAAGCCAAGGAGATTGGGGCTGATTTAGTCCTCCAGATCTCCAAGGAGAGCCC
TCAGGAAATCGCCAGGAAAGTAGAAGGTCAGCTGGGGTGCAAGCCGGAAGTCACCATCGAGTGCACGGGGGCAGA
GGCCTCCATCCAGGCGGGCATCTACGCCACTCGCTCTGGTGGGACCCTCGTGCTTGTGGGGCTGGGCTCTGAGAT
GACCACCGTACCCCTACTGCATGCAGCCATCCGGGAGGTGGATATCAAGGGCGTGTTTCGATACTGCAACACGTG
GCCAGTGGCGATTTCGATGCTTGCGTCCAAGTCTGTGAATGTAAAACCCTCGTCACCCATAGGTTTCCTCTGGA
GAAAGCTCTGGAGGCCTTTGAAACATTTAAAAAGGGATTGGGGTTGAAAATCATGCTCAAGTGTGACCCCAGTGA
CCAGAATCCC<u>TGA</u>TGTTAATGGGCTCTGCCCTCATCCCCACAGTCTTGGGATCTCAGGGCACAATGGCTGGACAT
GGGTGGGCTCTGATGCAGAACTTTCTCTTTTGAATGTTAAGAATAACTAATACAATTCATTGTGAACAGAAGTCC
TTAAGCAGAGGAATTGGTGTGCCTTAAAGATACAATCTGGGATAGTTTGGGGGAACTTGTAGCCAGAATGCCCTG
TTCATGCTGAGCAAAGTTCAGCAAGTAGAGCAGAGTTTGGCAGGCAGGTGCCAGGAACTCCCCTTCTTCCTGGAG
TGCCTTCATTGAGGAAGGAAATCTGGCCCTTGGGTTTCCTGGTTCCACTGCTACTGACCCAGAGGGGAATGAGGG
CTGAGTTATGAAAGATAACTTCATGAAGACTTAACTGGCCCAGAAGCTGATTTTCATGAAAATCTGCCACTCAG
GGTCTGGGATGAAGGCTTGTCAGCACTTCCAGTTTAGAACGCAATGTTTCTAGAGACATATTGGCTGTTTGTTTT
GATGATAAAAGGAGAATAAGAAAAGGCATCACTTTCCTGGATCCAGGATAATTTTTAAACCAATCAAATGAAAAA
AACAAACAAACAAAAAAGGAAATGTCATGTGAGGTTAAACCAGTTTGCATTCCCCTAATGTGGAAAAAGTAAGAG
GACTACTCAGCACTGTTTGAAGATTGCCTCTTCTACAGCTTCTGAGAATTGTGTTATTTCACTTGCCAAGTGAAG
GACCCCCTCCCCAACATGCCCCAGCCCACCCCTAAGCATGGTCCCTTGTCACCAGGCAACCAGGAAACTGCTACT
TGTGGACCTCACCAGAGACCAGGAGGGTTTGGTTAGCTCACAGGACTTCCCCCACCCCAGAAGATTAGCATCCCA
TACTAGACTCATACTCAACTCAACTAGGCTCATACTCAATTGATGGTTATTAGACAATTCCATTTCTTTCTGGTT
ATTATAAACAGAAATCTTTCCTCTTCTCATTACCAGTAAAGGCTCTTGGTATCTTTCTGTTGGAATGATTTCTA
TGAACTTGTCTTATTTTAATGGTGGGTTTTTTTTCTGGTAAGATTTAGACCTAAATCGCATCATGCCAACTTGTG
ACTTTGAGACTATTCATCAAGAATGAGGATATAGTAGCCATGACATAGCTTGAGCTATAGCCTTTAATTCCTTAC
TTTGGCTATGGGTGGAGGGTGAGTTTGAAGAGGTTCTGATTTTCTTGTAACCTGGGAAAGCCATGACCTTGTGCC
CGATTCTTTCAGATTGCTTTGGGTAATAAATATTGGTGGTGGTATCTGAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAA

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FIGURE 4188

MAAAAKPNNLSLVVHGPGDLRLENYPIPEPGPNEVLLRMHSVGICGSDVHYWEYGRIGNFIVKKPMVLGHEASGT
VEKVGSSVKHLKPGDRVAIEPGAPRENDEFCKMGRYNLSPSIFFCATPPDDGNLCRFYKHNAAFCYKLPDNVTFE
EGALIEPLSVGIHACRRGGVTLGHKVLVCGAGPIGMVTLLVAKAMGAAQVVVTDLSATRLSKAKEIGADLVLQIS
KESPQEIARKVEGQLGCKPEVTIECTGAEASIQAGIYATRSGGTLVLVGLGSEMTTVPLLHAAIREVDIKGVFRY
CNTWPVAISMLASKSVNVKPLVTHRFPLEKALEAFETFKKGLGLKIMLKCDPSDQNP

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FIGURE 4189

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GGAGAACTATCCTATCCCTGAACCAGGCCCAAATGAGGTCTTGCTGAGGATGCATTCTGTTGGAATCTGTGGCTC
AGATGTCCACTACTGGGAGTATGGTCGAATTGGGAATTTTATTGTGAAAAAGCCCATGGTGCTGGGACATGAAGC
TTCGGGAACAGTCGAAAAAGTGGGATCATCGGTAAAGCACCTAAAACCAGGTGATCGTGTTGCCATCGAATCTGG
TGCTCCCCGAGAAAATGATGAATTCTGCAAGATGGGCCGATACAATCTGTCACCTTCCATCTTCTTCTGTGCCAC
ACCCCCTGATGATGGGAACCTCTGCCAGTTCTATAAGCACAATGCAGCCTTTTGTTACAAGCTTCCTGACAATGT
CACCTTTGAGGAAGGCGCCCTGATTGATCCACTTTCTGTGGGGATCCATGCCTGCAGGAGAGGCGGAGTTACCCT
GGGACACAAGGTCCTTGTGTGTGGAGCTGGGGCAATCGGGGTAGTCACTTTGCTCGTGGCCAAGGCAATGGGAGC
AGCTCAAGTAGTGGTGACTGATCTGTCTGCTACCCGATTGTCCAAAGCCAAGGAGATTGGGGCTGATTTAGTCCT
CCAGATCTCCAAGGAGAGCCCTCAGGAAATCGCCAGGAAAGTAGAAGGTCTGCTGGGGTGCAAGCCGGAAGTCAC
CATCGAGTGCACGGGGCAGAGGCCTCCATCCAGGCAGGCATCTACGCCACTCGCTCTGGTGGGACCCTCGTGCTT
GTGGGGCTGGGCTCTGAGATGACCACCGTACCCCTACTGCATGCAGCCATCCGGGAGGTGGATATCAAGGGCGTG
TTTCGATACTGCAACACGTGGCCAGTGGCGATTTCGATGCTTGCGTCCAAGTCTGTGAATGTAAAACCCCTCGTC
ACCCATAGGTTTCCTCTGGAGAAAGCTCTGGAGGCCTTTGAAACATTTAAAAAGGGATTGGGGTTGAAAATCATG
CTCAAGTGTGACCCCAGTGACCAGAATCCCTGATGTTAATGGGCTCTGCCCTCATCCCCAGTCTCGGGATCTCAG
GGCACAATGGCTGGACATGGGTGGGCTCTGATGCAGAACTTTCTCTTTTGAATGTTAAGAATAACTAATACAATT
CATTGTGAACAGAAGTCCTTACGCAGAGGATTGGTGTGCCTTAAAGATACAATCTGGGATAGTTTGGGGGAACT
TGTAGCCAGAATGCCCTGTTCATGCTGAGCAAAGTTCAGCAAGTAGAGCAGAGTTTGGCAGGCAGGTGCCAGGAA
CTCCCCTTCTTCCTGGAGTGCCTTCATTGAGGAAGGAAATCTGGCCCTTGGGTTTCCTGGTTCCACTGCTACTGA
CCCAGAGGGGAATGAGGGCTGAGTTATGAAAAGATAACTTCATGAAGACTTAACTGGCCCAGAAGCTGATTTTCA
TGAAAATCTGCCACTCAGGGTCTGGGATGAAGGCTTGTCAGCACTTCCAGTTTAGAACGCAATGTTTCTAGAGAC
ATATTGGCTGTTTGTTTTGATGATAAAAGGAGAATAAGAAAAGGCATCACTTTCCTGGATCCAGGATAATTTTTA
AACCAATCAAATGAAAAAAACAAACAAACAAAAAAGGAAATGTCATGTGAGGTTAAACCAGTTTGCATTCCCCTA
ATGTGGAAAAAGTAAGAGGACTACTCAGCACTGTTTGAAGATTGCCTCTTCTACAGCTTCTGAGAATTGTGTTAT
TTCACTTGCCAAGTGAAGGACCCCCTCCCCAACATGCCCCACCCCACCCCTAAGTACGGTCCCTTGTCACCAGGC
AACCAGGAAACTGCTACTTGTGGACCTCACCAGAGACCAGGAGGGTTTGGTTAGCTCACAGGACTTCCCCCACCC
CAGAAGATTAGCATGCCATACTAGACTCATACTCAACTCAACTAGGCTCATACTCAATTGATGGTTATTAGACAA
TTCCATTTCTTTCTGGTTATTATAAACAGAAAATCTTTCCTCTTCTCATTACCAGTAAAGGCTCTTGGTATCTTT
CTGTTGGAATGATTTCTATGAACTTGTCTTATTTTAATGGTGGGTTTTTTTTCTGGTAAGATTTGGACCTAAATC
GCATCATGCCAACTTGTGACTTTGAGACTATTCATCAAGAATGAGGATATAGTAGCCATGACATAGCTTGAGCTA
TAGCCTTTAATTCCTTACTTTGGCTATGGGTGGAGGGTGAGTTTGAAGAGGTTCTGATTTTCTTGTAACCTGGGA
AAGCCATGACCTTGTGCCCGATTCTTTCAGATTGCTTTGGGTAATAAATATTGGTGGTGGTATCTG
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FIGURE 4190

MHSVGICGSDVHYWEYGRIGNFIVKKPMVLGHEASGTVEKVGSSVKHLKPGDRVAIESGAPRENDEFCKMGRYNL
SPSIFFCATPPDDGNLCQFYKHNAAFCYKLPDNVTFEEGALIDPLSVGIHACRRGGVTLGHKVLVCGAGAIGVVT
LLVAKAMGAAQVVVTDLSATRLSKAKEIGADLVLQISKESPQEIARKVEGLLGCKPEVTIECTGQRPPSRQASTP
LALVGPSCLWGWALR

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FIGURE 4191

ATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACATGGTATCACCATT
CATATCTCCTTGTGGAAATTTGAGACCAGCAGGTACTATGTGACTATCACTGATGTCCCAGGACACAGAGACTTC
ATCAAAAATATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATAGTTGCTGCTGGTGTTGCCCTGCTT
CTCCAGGATGTCTACAAAATTGATGGTATTGGTACTGTTCCTATTGGCCAAGTGGAGACTGGTGTTCTCAAACCT
GGTATGGTGGTCATCTTTGCTCCAGTCAACATTACAACTGAAGTAAAATCTGTCAAAAGGCACCATGAAGATTTG
AGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATCTTTGTCGTGGCAAC
TTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGATGATTATCCTGAACCGT
CCAGGCCTAATCAGCCCTGGCTACGTCCCTGTACTGGATTGCCACATGGCTCACCTTGCATGCAAGTTTGCTGAG
CTGAAGAAAGATTGATCGCCATTCTGCTGGAAGATGGCCCTAAATTCTTGAAGTCTGGTGATGCTGCCATCGTT
GACATGGTTCCTGTAAAGCCCATGTGTGTTAAGAGCTTCTCAGACTATCCACCTCTGGATCGCTTTGCTGTTCAT
GATATGAGACAGACAGTTGTCATGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGCTGTC
CACACCCTCTACACTTTAGAGGCTTCCCTGAATGGGATGCCCGTGATGAAAACATCCACCAGGAAGAAAGTGGCC
TTTGAAAAGACGTACAATAA

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FIGURE 4192

MGKGSFKYAWVLDKLKAEREHGITIHISLWKFETSRYYVTITDVPGHRDFIKNMITGTSQADCAVLIVAAGVGEF
EAGISRMSTKLMVLVLFLLAKWRLVFSNLVWWSSLLQSTLQLK

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FIGURE 4193

CTGGTCTAACAGACCCGCGAGAACGAAGGACGCTTGCCTTTTTCCGGTCGGGGAAGGGGGAAGAAGGTAACTTCC
GGTGACGGGGTTGCATCACTTCCTCTCAAGCTTGGCGTTTGTTTGGTGGGGTTACACGCGGGTTCAAC**ATG**CGTA
TCGAAAAGTGTTATTTCTGTTCGGGGCCCATCTATCCTGGACACGGCATGATGTTCGTCCGCAACGATTGCAAGG
TGTTCAGATTTTGCAAATCTAAATGTCATAAAAACTTTAAAAAGAAGCGCAATCCTCGCAAAGTTAGGTGGACCA
AAGCATTCCGGAAAGCAGCTGGTAAAGAGCTTACAGTGGATAATTCATTTGAATTTGAAAAACGTAGAAATGAAC
CTATCAAATACCAGCGAGAGCTATGGAATAAAACTATTGATGCGATGAAGAGAGTTGAAGAAATCAAACAGAAGC
GCCAAGCTAAATTTATAATGAACAGATTGAAGAAAAATAAAGAGCTACAGAAAGTTCAGGATATCAAAGAAGTCA
AGCAAAACATCCATCTTATCCGAGCCCCTCTTGCAGGCAAAGGGAAACAGTTGGAAGAGAAAATGGTACAGCAGT
TACAAGAGGATGTGGACATGGAAGATGCTCCT**TAA**AAATCTCTGTAACCATTTCTTTTATGTACATTTGAAAATG
CCCTTTGGATACTTGGACTGCTAAATTATTTTATTTTTTACATAAGGTCACTTAAATGAAAAGCGATTAAAAGA
CATCTTTCCTGCATTGCCATCTACATAATATCAGATATTACGGATGTTAGATTGCATCTCAGTGTTAAATCTTTA
CTGATAGATGTACTTAAGTAAATCATGAAAATTCTACTTGTAACTATAGAAGTGAATTGTGGACGTAAAATGGTT
GTGCTATTTGGATAATGGCACTAGGCAGCATTTGTATAGTAACTAATGGCAAAAATTCATGGCTAGTGATGTATA
AAATAAAATATTCTTTGCAGTAAAATATTCCCTTTGTTAATGTTATAGAAGGGGGGATACAAAAAGGAACTAACA
ATTTGTATGGCAGTGTCAGATATTTTTATTTTAGTATTTCCTGTTTTGGTTTATTTGCATCTTAGAAGAGCATAA
TGACATTGTTTGATGAAGCCTAATTATGCTGGACTGTTTTGACCTGGTTTAACCCTTCTGATAGGTAGTTGTGGA
TGCTGGGGATGAGAACTGAATAATCTTTGCCTGGAGTGACACTACACTCTAGAATTTCCACTTTGGAGAATACTC
AGTTCCAACTTGTGATTCCTGATAGAACAGACTTTACTTTTCTAGCCCAGCATTGATCTAGAAGCAGAGGAATCC
CAGCGCCTTTTAAAAGTTGTTATGTGGTTTTCTTTTAAAAAGCTCCTGTTTTTGGAAAGTAGAATTTATGGGTAC
AACGTATGTTCATTATTTGTACATAAAATAAAACCATTTAAAAAGTAAAAAAAAAAAAAAAA

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FIGURE 4194

MRIEKCYFCSGPIYPGHGMMFVRNDCKVFRFCKSKCHKNFKKKRNPRKVRWTKAFRKAAGKELTVDNSFEFEKRR
NEPIKYQRELWNKTIDAMKRVEEIKQKRQAKFIMNRLKKNKELQKVQDIKEVKQNIHLIRAPLAGKGKQLEEKMV
QQLQEDVDMEDAP

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FIGURE 4195

ACATAACTCCCCATGTCTGTTGATAAAAAAGAGACCCTAAGGAGGATTAAACTGTTCTCATCCTTTCGTTAGGGA
ACTGGGAATTGAAGCTGGAGTGACTGCAGCTACTTATACACCTGGTGCATTGCATCCTCACTTGGCCCATTATCA
CGCACCTCCTCGACTTCATCACTTACAATTAGGAGCTCTTCCTTTA<u>ATG</u>GTTCCTGATATGGCAGGCTATCCTCA
CATCCGTTACATTTCATCAGGATTGGATGGAACATCATTCAGAGGTCCTTTCAGGGGCAATTTTGAGGAACTGAT
TCATTTGGAAGAAAGATTAGGCAATGTCAATCGTGGAGCATCCCAGGGGACAATTGAAAGATGTACATATCCACA
TAAATACAAAAAGAGGAAACTGCACTGCAAACAAGATGGGGAAGAAGGGACTGAGGAAGACACAGAGGAAAAATG
TACTATCTGTTTGTCTATTTTAGAGGAAGGTGAAGATGTGAGACGTCTTCCATGTATGCACCTTTTCCACCAAGT
GTGTGTTGACCAATGGTTGATTACCAATAAGAAGTGCCCCATATGCAGAGTGGACATTGAGGCCCAGCTGCCAAG
TGAAAGT<u>TGA</u>CACCATGTTTCAGAACTCTTGCCCTCCCTCTCATTCCCATCCTTCCTGGTACTGCAGTCAACCAA
AGATGGCATGACTTACCTGCGCAGATTTGGAAGCATTGAACTTAGAGTGCTGGCTCTGCTATATGGTACAACTAA
TGCTAGACCTACAGTTTATGTATACAGTTGATTTTGATGTATTTATAAAAGCTTTTTTTTCTAGATTTGACATTT
TTCTGTATCATTTACTGTATTTTTGCATGGTTCCTTGTATTGCATTTCTTTGCACATATTATGGGCTTGTGACC
CTAAACTTGCAGGCAAGGTTAGCTGCTTTAGTAAGTAGAATTTTGTGGTCTTTTTGTTTTTTACATAGTACCAAG
CCTTGATAATTATGAATTTTTTATCCATTACTAACCTTTAATTTAATCAATCATGTACTTTAGTTTAATGTATAA
AGATCCTCTAGAAAATGATAATATTGTGTATTAAGACATTCCTTAATTAGGACAAAATGGCTGCTGTATATTTAC
TATATGGAGTTCTGAGTTAAATACCATCCTTAATACTGGGAACAGAATACAACCCATATAAATCAGATGCAGGTG
GTAGTCACATCACCAGAGTGATCAGTATAAATTTTCTTGGTGTATCCTTTTCCTTTCAACACAGTGCAGATAAGA
GTTGAATATTGATATCATACATTTAGACTGCTGTTCTGATTGCATTTATCTTTTTCCTACATCATTTAGAATTTT
ATTTCCCTGATTCAGTTTTTGCTGCTGTGAAACAGCTCTGATGAACACTAAATATTAATTTCAATTAGCTAGATT
GTACATACTTGCAGATTTAACAAAATTTTAGGGAAATTGAAAAAGACATGTAGAATTTGTTGTCTTCTGCTAAGC
ACGAAAAGTTAAGATATCTGCTTACATTGATTTTGTAGACACATTAAGTCAAGATTTGGAATTTAAGTCACTGGC
AGGTATCTGTGCATTCATAGAACTTATAAAGGTCCCAGGATCACTTTTAAGGGATTTTTATTAGTTTAAAGGTAA
ATAAAGTCAGCTGAATCTACATGTCTCTTGTTTTATTTCTCTCTAAACTTGAAAACAGTAAATCTGCAGATACTG
TGAGGCACAAATTATACTGTCAACCTACTGTTGCTATGGTTATATACTCCCACTTCATACATTACCAAGAGTCGA
TCACTGATTTAAAATTTTTAATTTCTATAGTTAAGATTTACTGCATAATATAGAATATAAAGTTAAGTTAACATA
CTAACATTTCTCCTTTGGAGGAAGTTTTAATCTACTTCAGGATGCATATTATTATCAAGATACTTTCATATACAG
GATAGCCTAATTTTATTTGTTTAAATATGCTTAATATGCCCCAGATTGCAAATGCATCCAGTCAGTAATATCACT
GTCTGTATGTGGAGGACATGTTCCCATGGATCATATGTGAAGATGTCAATAAGCTTGCATTAAGCCACCTGCTTT
GTAAGTGGATTGATTAATAAATAACTTATATTTCTAAAAAAAAAAAAAAAAAAAA

4553/6881
FIGURE 4196

MVPDMAGYPHIRYISSGLDGTSFRGPFRGNFEELIHLEERLGNVNRGASQGTIERCTYPHKYKKRKLHCKQDGEE
GTEEDTEEKCTICLSILEEGEDVRRLPCMHLFHQVCVDQWLITNKKCPICRVDIEAQLPSES

4554/6881
FIGURE 4197

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AATCCTGGAACAAGGCTACAGCGTCGAAGATCCCCAGCGCTGCGGGCTCGGAGAGCAGTCCTAACGGCGCCTCGT
ACGCTAGTGTCCTCCCTTTTCAGTCCGCGTCCCTCCCTGGGCCGGGCTGGCACTCTTGCCTTCCCCGTCCCTCAT
GGCGCTGCTCCGACGCCCGACGGTGTCCAGTGATTTGGAGAATATTGACACAGGAGTTAATTCTAAAGTTAAGAG
TCATGTGACTATTAGGCGAACTGTTTTAGAAGAAATTGGAAATAGAGTTACAACCAGAGCAGCACAAGTAGCTAA
GAAAGCTCAGAACACCAAAGTTCCAGTTCAACCCACCAAAACAACAAATGTCAACAAACAACTGAAACCTACTGC
TTCTGTCAAACCAGTACAGATGGAAAAGTTGGCTCCAAAGGGTCCTTCTCCCACACCTGAGGATGTCTCCATGAA
GGAAGAGAATCTCTGCCAAGCTTTTTCTGATGCCTTGCTCTGCAAAATCGAGGACATTGATAACGAAGATTGGGA
GAACCCTCAGCTCTGCAGTGACTACGTTAAGGATATCTATCAGTATCTCAGGCAGCTGGAGGTTTTGCAGTCCAT
AAACCCACATTTCTTAGATGGAAGAGATATAAATGGACGCATGCGTGCCATCCTAGTGGATTGGCTGGTACAAGT
CCACTCCAAGTTTAGGCTTCTGCAGGAGACTCTGTACATGTGCGTTGGCATTATGGATCGATTTTTACAGGTTCA
GCCAGTTTCCCGGAAGAAGCTTCAATTAGTTGGGATTACTGCTCTGCTCTTGGCTTCCAAGTATGAGGAGATGTT
TTCTCCAAATATTGAAGACTTTGTTTACATCACAGACAATGCTTATACCAGTTCCCAAATCCGAGAAATGGAAAC
TCTAATTTTGAAAGAATTGAAATTTGAGTTGGGTCGACCCTTGCCACTACACTTCTTAAGGCGAGCATCAAAAGC
CGGGGGAGGTTGATGTTGAACAGCACACTTTAGCCAAGTATTTGATGGAGCTGACTCTCATCGACTATGATATGGT
GCATTATCATCCTTCTAAGGTAGCAGCAGCTGCTTCCTGCTTGTCTCAGAAGGTTCTAGGACAAGGAAAATGGAA
CTTAAAGCAGCAGTATTACACAGGATACACAGAGAATGAAGTATTGGAAGTCATGCAGCACATGGCCAAGAATGT
GGTGAAAGTAAATGAAAACTTAACTAAATTCATCGCCATCAAGAATAAGTATGCAAGCAGCAAACTCCTGAAGAT
CAGCATGATCCCTCAGCTGAACTCAAAAGCCGTCAAAGACCTTGCCTCCCCACTGATAGGAAGGTCCTAGGCTGC
CGTGGGCCCTGGGGATGTGTGCTTCATTGTGCCCTTTTTCTTATTGGTTTAGAACTCTTGATTTTGTACATAGTC
CTCTGGTCTATCTCATGAAACCTCTTCTCAGACCAGTTTTCTAAACATATATTGAGGAAAAATAAAGCGATTGGT
TTTTCTTAAGGTAAAAAAAAAAAAAAAAAAA
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4555/6881
FIGURE 4198

MALLRRPTVSSDLENIDTGVNSKVKSHVTIRRTVLEEIGNRVTTRAAQVAKKAQNTKVPVQPTKTTNVNKQLKPT
ASVKPVQMEKLAPKGPSPTPEDVSMKEENLCQAFSDALLCKIEDIDNEDWENPQLCSDYVKDIYQYLRQLEVLQS
INPHFLDGRDINGRMRAILVDWLVQVHSKFRLLQETLYMCVGIMDRFLQVQPVSRKKLQLVGITALLLASKYEEM
FSPNIEDFVYITDNAYTSSQIREMETLILKELKFELGRPLPLHFLRRASKAGEVDVEQHTLAKYLMELTLIDYDM
VHYHPSKVAAAASCLSQKVLGQGKWNLKQQYYTGYTENEVLEVMQHMAKNVVKVNENLTKFIAIKNKYASSKLLK
ISMIPQLNSKAVKDLASPLIGRS

FIGURE 4199A

CGAGACTCAGCCAGAGGAGTACGGATTAAGTGGCCGAAGAAAGAGGAGTGAGGCAGGGGAGCGAGGCGGACGCTC
CGAGCGCATCGGACTCACCTGGGCCGGCGGCGACCGGCGAGTACGAGTGGACTCTTGCCCTCCGCAGCATGCGCC
CCGCCTGCTAAGTCGCCGCCGTCTCGCCCTCACCTAGCACCGCCAATCCCGCCTGGATGGAGTCCCCTCTGGGTT
CCCATTGGCTCCTGTGAGTGCTTGGGTGTCGGGAGCCTGTTTTTGGCGAGGGGAACCAACTTTTGAAGTTCGCCC
AGAAGACTGCGTTCCAGCCCCAGTTCCCCGGCAGCGGGACCCGGCGAAGACGCGACCGCGGCGCGAGTCACCATG
GGAAGCAAAGGTGTCTACCAGTACCACTGGCAAAGCCACAATGTCAAGCACAGTGGTGTGGACGACATGGTGCTA
CTGTCCAAGATCACAGAGAACTCCATCGTGGAGAATCTGAAGAAGAGATACATGGATGACTACATTTTTACATAT
ATAGGATCTGTATTAATCTCAGTCAACCCTTTCAAGCAGATGCCATATTTTGGGGAAAAGGAAATTGAAATGTAC
CAAGGAGCGGCACAGTATGAAAACCCACCACATATCTATGCCCTTGCAGATAATATGTACAGAAACATGATCATT
GACAGAGAGAACCAGTGCGTCATTATCAGTGGTGAAAGTGGTGCTGGAAAAACAGTGGCTGCCAAATATATCATG
AGCTACATCTCCAGAGTGTCTGGAGGAGGGACCAAAGTCCAGCACGTGAAGGACATTATCCTGCAGTCCAACCCG
·CTGCTGGAGGCCTTCGGGAACGCCAAGACCGTCCGGAACAACAACTCCAGCCGATTTGGAAAATACTTTGAAATC
CAGTTCAGTCCAGGTGGGGAACCAGATGGTGGAAAGATCTCCAACTTCCTTCTGGAAAAATCTAGGGTGGTGATG
AGGAACCCAGGAGAGCGGAGTTTTCACATATTTTACCAGCTCATCGAGGGCGCCTCTGCAGAGCAGAAACACAGC
CTTGGCATCACCAGCATGGACTATTATTACTACCTGAGCCTCTCGGGCTCATACAAGGTTGATGACATTGACGAC
AGGCGGGAGTTTCAGGAAACTCTGCACGCCATGAATGTGATTGGGATCTTTGCAGAAGAGCAAACGCTGGTGTTG
CAGATAGTGGCGGGTATTCTCCACCTGGGAAACATCAGCTTCAAAGAAGTTGGCAACTACGCGGCTGTGGAGAGT
GAAGAGTTTTTAGCTTTTCCTGCATATCTGCTAGGGATAAACCAGGACCGGTTGAAAGAAAAGCTAACAAGCCGG
CAGATGGATAGCAAGTGGGGAGGCAAATCCGAATCCATCCACGTGACCCTCAACGTAGAGCAGGCCTGTTACACC
CGGGATGCGCTCGCCAAGGCCCTGCACGCCCGGGTCTTTGATTCTTGGTAGATTCCATCAATAAAGCCATGGAG
AAAGACCATGAAGAATACAACATTGGCGTCCTAGACATCTATGGCTTTGAAATATTCCAGAAAAATGGCTTTGAA
CAGTTTTGTATCAATTTTGTTAATGAAAAACTGCAGCAGATTTTTATTGAACTGACATTAAAGGCAGAACAGGAA
GAATATGTTCAAGAGGGAATAAGATGGACACCCATTGAGTACTTTAATAATAAAATCGTATGTGACCTCATAGAG
AACAAAGTGAACCCTCCTGGCATCATGAGCATCCTGGATGACGTGTGCGCCACGATGCATGCGGTGGGTGAGGGG
GCAGATCAGACGCTGCTCCAGAAACTTCAGATGCAGATTGGGAGTCATGAGCACTTCAACAGTTGGAACCAAGGC
TTCATCATTCATCATTATGCTGGGAAGGTATCCTATGACATGGATGGCTTTTGTGAAAGGAACCGGGATGTGCTT
TTTATGGATCTCATCGAGCTTATGCAGAGCAGCGAGCTGCCTTTCATAAAGTCTTTATTTCCGGAAAATCTGCAG
GCTGACAAGAAAGGGCGCCCAACTACTGCCGGAAGCAAAATAAAGAAACAAGCCAATGACCTTGTGAGCACCCTG
ATGAAATGTACGCCCCACTACATTCGCTGCATCAAGCCAAACGAAACCAAGAAGCCCAGAGACTGGGAGGAAAGC
AGGGTAAAGCATCAAGTCGAATATTTGGGTCTGAAAGAGAACATTCGAGTGAGAAGAGCTGGCTATGCCTATCGG
CGCATCTTCCAAAAATTCCTACAGAGGTATGCCATTCTGACCAAAGCCACCTGGCCTTCTTGGCAGGGAGAGGAG
AAGCAAGGCGTCCTGCACCTGCTGCAGTCGGTCAACATGGACAGCGACCAGTTCCAGCTGGGGAGGAGTAAAGTG
·TTCATCAAAGCCCCCGAGTCTCTATTTCTTTTAGAAGAGATGAGAGAGAGAAAGTATGATGGGTATGCTCGAGTG
ATACAGAAATCATGGAGGAAATTCGTGGCCCGGAAGAAATACGTTCAAATGAGAGAAGAAGCCTCAGACCTCTTA
TTGAACAAGAAGGAGAGAAGGAGAAACAGTATTAACAGGAACTTTATAGGGGATTATATTGGGATGGAAGAGCAC
CCAGAACTCCAGCAGTTCGTGGGCAAGAGGGAGAAGATTGATTTCGCAGACACAGTCACCAAGTATGACAGGAGG
TTCAAGGGTGTAAAGCGAGACCTGCTCCTTACCCCAAAGTGCTTGTACTTAATCGGACGAGAAAAAGTCAAACAG
GGCCCAGACAAGGGCCTGGTGAAAGAAGTCCTGAAGCGGAAAATCGAGATAGAACGGATCTTGTCTGTGTCCCTC
AGTACTATGCAGGATGACATTTTTATTCTCCATGAGCAAGAGTATGACAGTTTGCTTGAATCTGTCTTCAAAACT
GAATTCCTAAGCCTCTTAGCAAAGCGTTACGAGGAGAAGACCCAGAAGCAACTACCTCTGAAATTCAGCAATACG
CTTGAACTGAAGTTGAAAAAGGAAACTGGGGCCCCTGGAGTGCAGGGGGCTCCCGGCAAGTGCAGTTCCACCAA
GGGTTTGGGGACCTGGCTGTCCTCAAGCCCAGTAACAAAGTGCTGCAGGTCAGCATCGGACCTGGACTGCCCAAG
AACTCCCGTCCTACCAGAAGGAACACTACCCAAAATACAGGTTATTCCAGTGGGACTCAAAATGCCAACTACCCA
GTGAGAGCTGCCCCTCCTCCCCCAGGATACCATCAGAACGGAGTCATCAGAACCAGTATGTGCCATATCCCCAT
GCTCCTGGAAGCCAGAGGTCCAATCAGAAAAGCCTGTACACCTCCATGGCCCGCCCGCCCTTGCCTCGGCAGCAG
TCTACCAGTTCAGACCGAGTGTCACAGACGCCAGAGAGCCTGGATTTCCTCAAGGTCCCGGACCAGGGAGCTGCA
GGGGTCAGGAGACAAACAACCAGTCGGCCTCCCCCAGCAGGGGGCAGACCCAAGCCCCAGCCCAAGCCCAAGCCT
CAGGTGCCACAGTGCAAGGCTTTGTATGCCTATGACGCTCAGGACACAGACGAACTCAGCTTTAATGCCAATGAC

4557/6881
FIGURE 4199B

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ATTATTGATATTATCAAAGAAGATCCTTCTGGCTGGTGGACGGGTCGACTACGAGGCAAGCAGGGCCTGTTCCCC
AACAACTATGTGACCAAGATCTGAGGTGCCCGTGACTCTGACACATGGGGCAGAGGAGCTCCAGGCACAGACCAG
GGGAGGGGATATTTAGGGGCTCCCCTTACAATCCACAATGAGCAATTGCTTCTCCAAGGCCTGGAGCTATTCTGG
TACCTTCCCCATGGAGGACACTGAAAAGGCTGGGTTGGGGACAGGGAGTATCACTCCATAAGTGATCCTAAAAGG
TAGCCTCTTCATAGGAACCCAGGAGGACAAAACCACCATGCATTAAGATTTATTTATTGTATTTAAACCTGGTGA
GAGGACAAGTGAGGTCTGCTCAGACCTTGTAGGCTTCTATCAAAACAGCACCCTGCTTGCTCACCAGGCCTAGAG
AATGGCTGTAGGTGGCCGCTGACAAGTGCCTTTAGTTGAAGAGCACATTTCTTTCATCTCTCTTGTCCATACCTG
ATAGACACATTCCTCTCTGCCACCTTCCTTCAGGGAGGACCCGCCCTCTGCAGACTGGGCTTAGCGTGAGCAGGC
ACTTCCCATGTACGTGCCAAGGGTAAGCTGGCCTGCTGAGCCCAGGGCGACAGAGGGGCACTGGTTTACACTTTG
CCGGGACCATCAGGGCCGCCAAGCAGGTCAGGGGCTGGGGGCTGGGGGCTGGGCTGCTGGCTTTGCTTTCTCTGG
GTCTTCAATTAGAATGTGGCTGGCCCATATTGGTTTGTGTTTAAATGCTGTACTTACTACAAGAAGGATCTTTTT
TCAAGCTGTACATTTATAAAAACAGATCATATACTGTATATATAAAAATCTTGAGATGGTAGAAACATGTATGAA
TGTACTAAGTAGTATTCCACTGTACTCATTCATAAGGTAGGTTTTCTTACAAAACTCACACCAGGTACTTAAAGA
TGTGCTCTGCTTTTTTCCAACTACGGAGTGTCACTGCTTTCTAGGTCAGTCCCTGCAGACTCTTCTCAACTCTTT
CCCTATAGGAAACTTACT
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4558/6881
FIGURE 4200

TTTTGGCTCTCTCACCAGCACC<u>ATG</u>GCTGTTGGCAAGAACAAGCGCCTTACGAAAGGCGGCAAAAAGGGAGCCAA
GAAGAAAGTGGTTGATCCATTTTCTAAGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTCAATATAAGAAA
TATTGGAAAGACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCGTCTGATGGTCTCAAGGGTCGTGTGTTTGA
AGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTCAGGG
TAAAAACTGCCTGACTAACTTCCATGGCATGGATCTTACCCGTGACAAAATGTGTTCCATGGTCAAAAAATGGCA
GACAATGATTGAAGCTCACGTTGATGTCAAGACTACCGATGGTTACTTGCTTCGTCTGTTCTGTGTTGGTTTTAC
TAAAAAACGCAAAAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAGAT
GATGGAAATCATGATCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCAT
TGGAAAAGACATAGAAAAGGCTTGCCAATCTATTTATCCTCTCCATGATGTCTTCGTTAGAAAAGTAAAAATGCT
GAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCCACTGG
GGACGAGACAGGTGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTT<u>TAA</u>AGTTCAGA
CTTCAAATAGTGGCAAATAAAACGTGCTATTTGT

4559/6881
FIGURE 4201

MAVGKNKRLTKGGKKGAKKKVVDPFSKKDWYDVKAPAMFNIRNIGKTLVTRTQGTKIASDGLKGRVFEVSLADLQ
NDEVAFRKFKLITEDVQGKNCLTNFHGMDLTRDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGFTKKRKNQI
RKTSYAQHQQVRQIRKKMMEIMIREVQTNDLKEVVNKLIPDSIGKDIEKACQSIYPLHDVFVRKVKMLKKPKFEL
GKLMELHGEGSSSGKATGDETGAKVERADGYEPPVQESV

4560/6881
FIGURE 4202

GTGTGGATGAGGTCACCATTGTCAACATTTTGACCAACCGCAGCAATGCACAGAGACAGGATATTGCCTTCGCCT
ACCAGAGAAGGACCAAAAAGGAACTTGCATCAGCACTGAAGTCAGCCTTATCTGGCCACCTGGAGACGGTGATTT
TGGGCCTATTGAAGACACCTGCTCAGTATGACGCTTCTGAGCTAAAAGCTTCCATGAAGGGGCTGGGAACCGACG
AGGACTCTCTCATTGAGATCATCTGCTCCAGAACCAACCAGGAGCTGCAGGAAATTAACAGAGTCTACAAGGAAA
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXGGTAGAAGAGCAGAGGATGGCTCTGTCATTGATTATGAACTGATTGACCAAGATGCTCGGGATCTCTATG
ACGCTGGAGTGAAGAGGAAAGGAACTGATGTTCCCAAGTGGATCAGCATCATGACCGAGCGGAGCGTGCCCCACC
TCCAGAAAGTATTTGATAGGTACAAGAGTTACAGCCCTTATGACATGTTGGAAAGCATCAGGAAAGAGGTTAAAG
GAGACCTGGAAAATGCTTTCCTGAACCTGGTTCAGTGCATTCAGAACAAGCCCCTGTATTTTGCTGATCGGCTGT
ATGACTCCATGAAGGGCAAGGGGACGCGAGATAAGGTCCTGATCAGAATCATGGTCTCCCGCAGTGAAGTGGACA
TGTTGAAAATTAGGTCTGAATTCAAGAGAAAGTACGGCAAGTCCCTGTACTATTATATCCAGCAAGACACTAAGG
GCGACTACCAGAAAGCGCTGCTGTACCTGTGTGGTGGAGATGACTGAAGCCCGACACGGCCTGAGCGTCCAGAAA
TGGTGCTCACCATGCTTCCAGCTAACAGGTCTAGAAAACCAGCTTGCGAATAACAGTCCCCGTGGCCATCCCTGT
GAGGGTGACGTTAGCATTACCCCCAACCTCATTTTAGTTGCCTAAGCATTGCCTGGCCTTCCTGTCTAGTCTCTC
CTGTAAGCCAAAGAAATGAACATTCCAAGGAGTTGGAAGTGAAGTCTATGATGTGAAACACTTTGCCTCCTGTGT
ACTGTGTCATAAACAGATGAATAAACTGAATTTGTACTTT

FIGURE 4203

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GTACTCGCCACGGCACCCAGGCTGCGCGCACGCGGTCCCGGTGTGCAGCTGGAGAGCGAGCGGCCACCGGGAGCC
CCCGGCACAGCCCGCGCCCGCCCCGCAGGAGCCCGCGAAGATGCCCCGGCGCAGCCTGCACGCGGCGGCCGTGCT
CCTGCTGGTGATCTTAAAGGAACAGCCTTCCAGCCCGGCCCCAGTGAACGGTTCCAAGTGGACTTATTTTGGTCC
TGATGGGGAGAATAGCTGGTCCAAGAAGTACCCGTCGTGTGGGGGCCTGCTGCAGTCCCCCATAGACCTGCACAG
TGACATCCTCCAGTATGACGCCAGCCTCACGCCCCTCGAGTTCCAAGGCTACAATCTGTCTGCCAACAAGCAGTT
TCTCCTGACCAACAATGGCCATTCAGTGAAGCTGAACCTGCCCTCGGACATGCACATCCAGGGCCTCCAGTCTCG
CTACAGTGCCACGCAGCTGCACCTGCACTGGGGGAACCCGAATGACCCGCACGGCTCTGAGCACACCGTCAGCGG
ACAGCACTTCGCCGCCGAGCTGCACATTGTCCATTATAACTCAGACCTTTATCCTGACGCCAGCACTGCCAGCAA
CAAGTCAGAAGGCCTCGCTGTCCTGGCTGTTCTCATTGAGATGGGCTCCTTCAATCCGTCCTATGACAAGATCTT
CAGTCACCTTCAACATGTAAAGTACAAAGGCCAGGAAGCATTCGTCCCGGGATTCAACATTGAAGAGCTGCTTCC
GGAGAGGACCGCTGAATATTACCGCTACCGGGGGGTCCCTGACCACACCCCCTTGCAACCCCACTGTGCTCTGGAC
AGTTTTCCGAAACCCCGTGCAAATTTCCCAGGAGCAGCTGCTGGCTTTGGAGACAGCCCTGTACTGCACACACAT
GGACGACCCTTCCCCCAGAGAAATGATCAACAACTTCCGGCAGGTCCAGAAGTTCGATGAGAGGCTGGTATACAC
CTCCTTCTCCCAAGTGCAAGTCTGTACTGCGGCAGGACTGAGTCTGGGCATCATCCTCTCACTGGCCCTGGCTGG
CATTCTTGGCATCTGTATTGTGGTGGTGGTGTCCATTTGGCTTTTCAGAAGGAAGAGTATCAAAAAAGGTGATAA
CAAGGGAGTCATTTACAAGCCAGCCACCAAGATGGAGACTGAGGCCCACGCTTGAGGTCCCCGGAGCTCCCGGGC
ACATCCAGGAAGGACCTTGCTTTGGACCCTACACACTTCGGCTCTCTGGACACTTGCGACACCTCAAGGTGTTCT
CTGTAGCTCAATCTGCAAACATGCCAGGCCTCAGGGATCCTCTGCTGGGTGCCTCCTTGCCTTGGGACCATGGCC
ACCCCAGAGCCATCCGATCGATGGATGGGATGCACTCTCAGACCAAGCAGCAGGAATTCAAAGCTGCTTGCTGTA
ACTGTGTGAGATTGTGAAGTGGTCTGAATTCTGGAATCACAAACCAAGCCATGCTGGTGGGCCATTAATGGTTGG
AAAACACTTTCATCCGGGGCTTTGCCAGAGCGTGCTTTCAAGTGTCCTGGAAAGTCTGCTGCTTCTCCAAGCTTT
CAGACAAGAATGTGCACTCTCTGCTTAGGTTTTGCTTGGGAAACTCAACTTCTTTCCTCTGGAGACGGGGCATCT
CCCTCTGATTTCCTTCTGCTATGACAAAACCTTTAATCTGCACCTTACAACTCGGGGACAAATGGGGACAGGAAG
GATCAAGTTGTAGAGAGAAAAAAGAAACAAGAGATATACATTGTGATATATTAGGGACACTTTCACAGTCCTGT
CCTCTGGATCACAGACACTGCACAGACCTTAGGGAATGGCAGGTTCAAGTTCCACTTCTTGGTGGGGATGAGAAG
GGAGAGAGAGCTAGAGGGACAAAGAGAATGAGAAGACATGGATGATCTGGGAGAGTCTCACTTTGGAATCAGAAT
TGGAATCACATTCTGTTTATCAAGCCATAATGTAAGGACAGAATAATACAATATTAAGTCCAAATCCAACCTCCT
GTCAGTGGAGCAGTTATGTTTTATACTCTACAGATTTTACAAATAATGAGGCTGTTCCTTGAAAATGTGTTGTTG
CTGTGTCCTGGAGGAGACATGAGTTCCGAGATGACCCAATCTGCCTTTGAATCTGGAGGAAATAGGCAGAAACAA
AATGACTGTAGAACTTATTCTCTGTAGGCCAAATTTCATTTCAGCCACTTCTGCAGGATCCCTACTGCCAACCTG
GAATGGAGACTTTTATCTACTTCTCTCTCTCTGAAGATGTCAAATCGTGGTTTAGATCAAATATATTTCAAGCTA
TAAAAGCAGGAGGTTATCTGTGCAGGGGGCTGGCATCATGTATTTAGGGGCAAGTAATAATGGAATGCTACTAAG
ATACTCCATATTCTTCCCCGAATCACACAGACAGTTTCTGACAGGCGCAACTCCTCCATTTTCCTCCCGCAGGTG
AGAACCCTGTGGAGATGAGTCAGTGCCATGACTGAGAAGGAACCGACCCCTAGTTGAGAGCACCTTGCAGTTCCC
CGAGAACTTTCTGATTCACAGTCTCATTTTGACAGCATGAAATGTCCTCTTGAAGCATAGCTTTTTAAATATCTT
TTTCCTTCTACTCCTCCCTCTGACTCTAAGAATTCTCTCTTCTGGAATCGCTTGAACCCAGGAGGCGGAGGTTGC
AGTAAGCCAAGGTCATGCCACTGCACTCTAGCCTGGGTGACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAA
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4562/6881
FIGURE 4204

MPRRSLHAAAVLLLVILKEQPSSPAPVNGSKWTYFGPDGENSWSKKYPSCGGLLQSPIDLHSDILQYDASLTPLE
FQGYNLSANKQFLLTNNGHSVKLNLPSDMHIQGLQSRYSATQLHLHWGNPNDPHGSEHTVSGQHFAAELHIVHYN
SDLYPDASTASNKSEGLAVLAVLIEMGSFNPSYDKIFSHLQHVKYKGQEAFVPGFNIEELLPERTAEYYRYRGSL
TTPPCNPTVLWTVFRNPVQISQEQLLALETALYCTHMDDPSPREMINNFRQVQKFDERLVYTSFSQVQVCTAAGL
SLGIILSLALAGILGICIVVVVSIWLFRRKSIKKGDNKGVIYKPATKMETEAHA

4563/6881
FIGURE 4205

GCAGATCGCTTGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGGCTGAGCTTGCAAGAGGATCAAC<u>ATG</u>

CCTTTGGCTAGAGATTTACTACATCCGTCCTTGGAAGAGGAAAAGAAAAAACATAAAAAGAAACGCCTAGTACAA
AGTCCAAATTCTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGATCACCACGGTTTTCAGCCATGCTCAG
ACAGTGGTTCTTTGTGTAGGTTGTTCAACAGTGTTGTGCCAGCCTACAGGAGGAAAGGCCAGACTCACAGAAGGG
TGTTCATTTAGAAGAAAGCAACAC<u>TAA</u>TGATTCAAACAGCTTCCTGAATTTTAATTTTGTGTTGTCTCACAGAAA
GCCTTATCATAAATTCCATAATTCTAATTAATTTACCAAGATAATGTAATTACATTTGGTTTTGTAAGGTATACA
GCAGTAATCTCCTATTTTGGTGTCAGTTTTTCAATAAAGTTTTGATTATGGGCAAAAAAAAAAAAAAAAAAAAA

4564/6881
FIGURE 4206

MPLARDLLHPSLEEEKKKHKKKRLVQSPNSYFMDVKCPGCYKITTVFSHAQTVVLCVGCSTVLCQPTGGKARLTE
GCSFRRKQH

4565/6881

FIGURE 4207

CCGCGCGCTCGCCCCGCCGCTCCTGCTGCAGCCCCAGGGCCCCTCGCCGCCGCCACCATGGACGCCATCAAGAAG
AAGATGCAGATGCTGAAGCTCGACAAGGAGAACGCCTTGGATCGAGCTGAGCAGGCGGAGGCCGACAAGAAGGCG
GCGGAAGACAGGAGCAAGCAGCTGGAAGATGAGCTGGTGTCACTGCAAAAGAAACTCAAGGGCACCGAAGATGAA
CTGGACAAATACTCTGAGGCTCTCAAAGATGCCCAGGAGAAGCTGGAGCTGGCAGAGAAAAAGGCCACCGATGCT
GAAGCCGACGTAGCTTCTCTGAACAGACGCATCCAGCTGGTTGAGGAAGAGTTGGATCGTGCCCAGGAGCGTCTG
GCAACAGCTTTGCAGAAGCTGGAGGAAGCTGAGAAGGCAGCAGATGAGAGTGAGAGAGGCATGAAAGTCATTGAG
AGTCGAGCCCAAAAAGATGAAGAAAAAATGGAAATTCAGGAGATCCAACTGAAAGAGGCCAAGCACATTGCTGAA
GATGCCGACCGCAAATATGAAGAGGTGGCCCGTAAGCTGGTCATCATTGAGAGCGACCTGGAACGTGCAGAGGAG
CGGGCTGAGCTCTCAGAAGGCAAATGTGCCGAGCTTGAAGAAGAATTGAAAACTGTGACGAACAACTTGAAGTCA
CTGGAGGCTCAGGCTGAGAAGTACTCGCAGAAGGAAGACAGATATGAGGAAGAGATCAAGGTCCTTTCCGACAAG
CTGAAGGAGGCTGAGACTCGGGCTGAGTTTGCGGAGAGGTCAGTAACTAAATTGGAGAAAAGCATTGATGACTTA
GAAGACGAGCTGTACGCTCAGAAACTGAAGTACAAAGCCATCAGCGAGGAGCTGGACCACGCTCTCAACGATATG
ACTTCCATATAAGTTTCTTTGCTTCACTTCTCCCAAGACTCCCTCGTCGAGCTGGATGTCCCACCTCTCTGAGCT
CTGCATTTGTCTATTCTCCAGCTGACCCTGGTTCTCTCTCTTAGCATCCTGCCTTAGAGCCAGGCACACACTGTG
CTTTCTATTGTACAGAAGCTCTTCGTTTCAGTGTCAAATAAACACTGTGTAAGCT

FIGURE 4208

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TTGATGCTCTAAATGCAGAATTAATGGAGACTTCAATGACTGATATGTCAATTCTTAGTTTCTTTGAACATTTCC
ATATTTCTCCTGTGAAGTTGCATTTGAGTTTGTCTTTGGGTTCCGGAGGTGAAGAATCAGACAAAGAAAAACAGG
AAATGTTTGCAGTTCATTCTGTCAACTTGCTGTTGAAGAGCATAGGTGCTACTCTGACTGATGTGGATGACCTTA
TATTCAAACTTGCTTATTATGAAATTCGATATCAGTTCTACAAGAGAGATCAGCTTATATGGAGTGTTGTTAGGC
ATTACAGTGAACAGTTCTTGAAACAGATGTATGTCCTTGTATTGGGGTTAGATGTACTTGGAAACCCATTTGGAT
TAATTAGAGGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAACCCTTCCAGGGTGCTGTTCAAGGCCCTGAAG
AATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAGTAGGTGGTGCAGCAGGAGTTGTAT
CTCGAATCACCGGTTCTGTTGGGAAAGGTTTGGCAGCAATTACAATGGACAAGGAATATCAGCAAAAAAGAAGAG
AAGAGTTGAGTCGACAGCCCAGAGATTTTGGAGACAGCCTGGCCAGAGGAGGAAAGGGCTTTCTGCGAGGAGTTG
TTGGTGGAGTGACTGGAATAATAACAAAACCTGTGGAAGGTGCCAAAAAGGAAGGAGCTGCTGGATTCTTTAAAG
GAATTGGAAAAGGGCTTGTGGGTGCTGTGGCCCGTCCAACTGGTGGAATCGTAGATATGGCCAGTAGTACCTTCC
AAGGCATTCAGAGGGCAGCAGAATCAACTGAGGAAGTATCTAGCCTCCGTCCCCCTCGCCTGATCCATGAAGATG
GCATCATTCGTCCTTATGACAGACAGGAATCTGAGGGCTCTGACTTACTTGAGAATCATATCAAAAAGTTGGAAG
GAGAGACTTACCGATACCACTGTGCTATTCCTGGAAGCAAGAAGACAATCCTTATGGTTACAAATAGGCGAGTGT
TGTGTATAAAGGAAGTTGAAATCCTGGGCCTTATGTGTGTAGACTGGCAATGTCCATTTGAAGATTTTGTATTTC
CTCCTAGTGTCAGTGAAAATGTGCTAAAAATTTCAGTTAAGGAACAGGGTCTGTTCCACAAAAAAGACAGTGCCA
ATCAAGGCTGTGTTCGAAAAGTTTACCTGAAGGACACCGCCACAGCAGAGAGAGCATGTAATGCCATTGAGGATG
CACAGTCAACGAGACAGCAGCAAAAATTGATGAAGCAGTCATCAGTGAGACTTCTCAGACCCCAATTGCCATCTT
AATCACAGACCTCAGGGGCTCCAACAGGGAGAAAAAACAATCACTGGTCTTGTCTATAAGTCACTCTGCTTTATC
TTGCTAAAGACAATTTTTCAAGCAATCCTTTAGTTTTAGTTTTCTGGAATAGCTAGTATTGGGTTTTCTAGTTTT
TTCACCTTTTAGTTTTTACTCTAATTTTGTAACCATGTATATGCTAGCAGTCCACTTCTACGCCACCACCCAAAT
GGGTCAGACCCTTGAAGAAACGTCACTTCAAACTCAGAATGAAATTTTCATTAATATTAAAATTGTGAAGCAAAG
GTCAATAGGCTTATATTTAATTAAAGCCTTACTGAAGAATAAGAAATGAGCTTAGAATGACTAGTGTTCTTTGAA
AGGTTTTTTTATTTTTGTTTTTTTGGGGTTTTTTTTTTTTTTTGAGACCGAGTCTTGCTCTGTCGCCCAGGCT
GGAATGCAGTGGTGCGATCTTGGCTCACTGCAATCTCTGCCTCTCGGGTTCAAGCGGTTCTACTGCCTCAGCCTC
CTGAGTAGCTAGGATTACAGGTGTGTGCCACCACGCCTGGGTAATTTTTTTTTTTTGTATTTTTAGTAGAGAT
GAGTTTCACCATGTTGGTCAGTCTAGTCTCGAACTCCTGACCTTGTGATCCGCATGCCTCAGCCTCCCAAAGTGC
TGGGATTACAGGCATGAGCCACCACGGCCCGCCAAAAGGCTTTAACCCATGAACAAATGTTGGATCCTGACATTT
TGTTTAAGAGTGATTTGTTCAATAATTGAACTGAGTTAACATTCTTGGTAAACCAGGTAATTGAATGAAGAAAGG
TCACTAAAGGGAGAAATGACATGTTTTCTATTTTCTTTTCATGAAAACACTGTTTTTCCCCCTAATAAAGCATAT
TTTACTTTGGTGCTTATTTTTCCTCCTTGCAGTCTAATAAAAAAATCTGGACAATCAAACCTTAAAATAGCTACA
CTCTGCCCTCTGTAATGTAGCATTCATAAAAATTTGGAAGTATTTACATCCTCTTTCAAGATGAGCTTATATGAC
ACAATTATTATTTGCTGATACATGAAAATACTGCACTTTAAGTTTCTCAAGACTCTGAAATATGTAAAATTCAAT
ATTTTTATATTCCCAGAAATTGTTTCTTACAGGTTGAAAGTCTTTTAAGGGCATCACAAATTAACATTTACTCCT
AATGCACGCCTAGAATGTATTTTAAATACTTACTAAGAAGAATGAAAATTCTTTGGTTGTTTATATATAAATAA
GGCATATATAATGACACTGTGTTCTGTGAGGGAGCAGGCCCTGTGAGAATCAATTCAGGACAGTATTTTTTTTG
TCCTTTCTCCATCCTTGATCAGAGATAAACTATTAAAACTTTAAAAAATACTCAAAAATATGTAAGTTTTTTGGT
TGAACCTTTAGATTTGCTCATAATGTTTAACATAACAACATTTATTTCAAATCACTGAATTCATGGAGATGTGGA
CACGCTTGGTTTGCTCTATTTTTGTTTATGTGTGATAGTGGTTCTGTCATCATCATTCATGTTTTTTAAGGCCTG
GTCATAAAACTTTAAATTTTACTAGTGTTACTTAATGTATATTCTAAAAAGAGAATGCAGTAACTAATGCCCTAA
ATGTTTGATCTCTGTTTGTCATTACTTTTTCAAAATTATTTTTTTCTGTAAAGTATAATATATAAAACTTCTTGC
TTAAATTGAATTTCTATATTAGTGGTTAATTGCAGTTTATTAAAGGGATCATTATCAGTAATTTCATAGCAACTG
TTCTAGTGTTTTGTGTTTTAAAACAGAATTAGGAATTTGAGATATCTGATTATATTTTCATATGAATCACAGC
TGTTGACAATGTCCCATATATTTAAGAAATTATATCATACTGATACTATTTGTAACATTTTGATTTGATTTAATC
TCCAGGGACAGAAATAATTCATTGGTAAAGTGTAATAATGCGTTTTTTAAAAATGCTTTGAGAGGTAATTACTTG
CATATGAGAGAAATAAAACATTTGGCACATTGTTTACAGGTGTGAAAAAAAAAAAAAAAAAAAAAAAAAA
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4567/6881
FIGURE 4209

METSMTDMSILSFFEHFHISPVKLHLSLSLGSGGEESDKEKQEMFAVHSVNLLLKSIGATLTDVDDLIFKLAYYE
IRYQFYKRDQLIWSVVRHYSEQFLKQMYVLVLGLDVLGNPFGLIRGLSEGVEALFYEPFQGAVQGPEEFAEGLVI
GVRSLFGHTVGGAAGVVSRITGSVGKGLAAITMDKEYQQKRREELSRQPRDFGDSLARGGKGFLRGVVGGVTGII
TKPVEGAKKEGAAGFFKGIGKGLVGAVARPTGGIVDMASSTFQGIQRAAESTEEVSSLRPPRLIHEDGIIRPYDR
QESEGSDLLENHIKKLEGETYRYHCAIPGSKKTILMVTNRRVLCIKEVEILGLMCVDWQCPFEDFVFPPSVSENV
LKISVKEQGLFHKKDSANQGCVRKVYLKDTATAERACNAIEDAQSTRQQQKLMKQSSVRLLRPQLPS

4568/6881
FIGURE 4210

GCGGCGGCGGCGGCGGCGGCGGTGACGGCCGGGAAGGGTCAGTTGGAGGCAGGCGCTCGCTGAGGCAAAAGGAGG
CGCTCGGCCCGCGGCCTGACAGGGACTTAGCCCGCAGAGATCGACCCCGCGCGCGTGACCCCACACCCACCCACT
CATCCATCTATCCACTCCCTGCGCCGCCTCCTCCCACCCTGAGCAGAGCCGCCGAGGATGATAAACACCCAGGAC
AGTAGTATTTTGCCTTTGAGTAACTGTCCCCAGCTCCAGTGCTGCAGGCACATTGTTCCAGGGCCTCTGTGGTGC
TCCTGATGCCCCTCACCCACTGTCGAAGATCCCCGGTGGGCGAGGGGGCGGCAGGGATCCTTCTCTCTCAGCTCT
AATATATAAGGACGAGAAGCTCACTGTGACCCAGGACCTCCCTGTGAATGATGGAAAACCTCACATCGTCCACTT
CCAGTATGAGGTCACCGAGGTGAAGGTCTCTTCTTGGGATGCAGTCCTGTCCAGCCAGAGCCTGTTTGTAGAAAT
CCCAGATGGATTATTAGCTGATGGGAGCAAAGAAGGATTGTTAGCACTGCTAGAGTTTGCTGAAGAGAAGATGAA
AGTGAACTATGTCTTCATCTGCTTCAGGAAGGGCCGAGAAGACAGAGCTCCACTCCTGAAGACCTTCAGCTTCTT
GGGCTTTGAGATTGTACGTCCAGGCCATCCCTGTGTCCCCTCTCGGCCAGATGTGATGTTCATGGTTTATCCCCT
GGACCAGAACTTGTCCGATGAGGACTAATAGTCATAGAGGATGCTTTACCCAAGAGCCACAGTGGGGGAAGAGGG
GAAGTTAGGCAGCCCTGGGACAGACGAGAGGGCTCCTCGCTGTCTAGGGAAGGACACTGAGGGGCTCAGGGTGAG
GGTTGCCTATTGTGTTCTCGGAGTTGACTCGTTGAAATTGTTTTCCATAAAGAACAGTATAAACATATTATTCAC
ATGTAATCACCAATAGTAAATGAAGATGTTTATGAACTGGCATTAGAAGCTTTCTAAACTGCGCTGTGTGATGTG
TTCTATCTAGCCTAGGGGAGGACATTGCCTAGAGGGGGAGGGACTGTCTGGGTTCAGGGGCATGGCCTGGAGGGC
TGGTGGGCAGCACTGTCAGGCTCAGGTTTCCCTGCTGTTGGCTTTCTGTTTTGGTTATTAAGACTTGTGTATTTT
CTTTCTTTGCTTCCTGTCACCCCAGGGGCTCCTGAGTATAGGCTTTTCAGTCCCTGGGCAGTGTCCTTGAGTTGT
TTTTGACACTCTTACCTGGGCTTCTCTGTGTGCATTTGCGTCTGGCCTGGAGTAAGCAGGTCCGACCCCTCGTT
CTTTACAGCTTAGTGTTATTCTGGCATTTGGTTAAGCTGGCTTAATCTTGTTAATGTTATCAGTACATTTTAAA
TAGGGGCATTGAAATTTACTCCCACCACCAGGGCTTTTTTGGGGGATGCCTGGGCCTTTAAAACACTAGCCAAAC
TCTAATTAATTCTCAAATCACTGCCAGGAGTTCTTGCTCCTGGCTGCAGGCCCAGGCCCCAAGGTCTCCTTCTTG
GGGTCACAAACAGCAGTAAGGAAGAGGAATATATAGCAACTCAGGGCCTGGGAATTGTGGGGCAATCCGTTCTTA
GGGACTGGATACTTCTGGCTGGCTGAGTATAGTACTAGCTGCCTCCCCACCAGGTTCCGAGTAGTGTCTGAGACT
CTGCTCTGCAGGGCCTAGGGTAGCGCTGGGAGTGTAGAAGTGGCCTGCCCTTAACTGTTTTCACTAAACAGCTTT
TTCTAAGGGGAGAGCAAGGGGGAGAGATCTAGATTGGGTGAGGGGGACGGGGATGTCAGGGAGGCAAGTGTGTTG
TGTTACTGTGTCAATAAACTGATTTAAAGTT

4569/6881
FIGURE 4211

AGACAGAGTCTCACTCTGCCGCCCAGGCTGGAGTGCAGTGGTGTGATCTGGGCTCACTGCAACCTCTGCCTCCTG
GGTTCAAGCGATTCTCCTGCTTCAGCCTCCTGAGTAGCTGGGATTACAGTGCGTCACCATGCCCGGCTAATTTTT
GTATTTTTAGTGGAGATGGTGTTTCTCCATGTTGACCAGGCTAGTCTCAAACTCCTGACTTCAGGTGATTCACCC
GCCTCAGCTTCCCAAAGTGCTGGGATTACAGGCACGAGCCATCATGCCCCGCCATCAGTTCAATTAAATCTAGAT
ATCACATTCTTCCTATCCTTTTTTATTATACATGTCATGATATGGGATGTTGGTGGTAAATGTAACGTGGAGGAA
CAAGACATATGTAGGTACACTCCTTGACTGCACACGACATGATTGGGCACCCCCAAGGTTCTGTGACTCCCCGAC
CAGTGACCTGGAAATGCGCAATGGCCGGGGTAGAGGCAAACGCATGCGTCCCAACAGTAATACACCTGTCAATGA
GACAGCCACAGCCTCTGACAGCAAAGGGACCAGTAACAGCAGCAAAACCCGGGCAGGAGCCAATAGCAAAGGCCG
TCGGGGCAGCCAGAATTCTTCAGAGCACCGCCCACCTGCCAGCAGCACTTCTGAGGATGTCAAGGCCAGCCCTTC
CTCAGCTAATAAGCGGAAAAACAAACCCCTTTCAGACATGGAGCTGAATTCTAGCTCAGAGGACTCCAAAGGGAG
CAAGCGTGTCCGTACTAATTCCATGGGCTCAGCCACTGGCCCCCTTCCTGGGACAAAGGTAGAACCCACTGTTCT
GGACAGAAACTGCCCCTCCCCCGTCCTAATTGACTGTCCCCACCCAAACTGCAACAAGAAGTACAAGCACATCAA
TGGACTTAAGTACCACCAAGCTCATGCCCATACAGATGATGACAGCAAGCCGGAAGCGGATGGGGACAGTGAGTA
CGGAGAGGAACCTATTCTCCATGCAGATCTTGGGAGCTGCAACGGTGCATCTGTCTCACAAAAAGGTTCCTTGTC
CCCTGCCCGCTCAGCTACCCCCAAAGTTCGACTTGTAGAGCCCCATAGCCCTTCTCCTTCAAGCAAATTCAGCAC
AAAAGGCCTCTGTAAGAAAAAGTTGAGTGGGGAAGGGGACACAGACCTTGGGGCCTTATCCAATGATGGCTCTGA
TGATGGACCCTCAGTGATGGATGAAACAAGCAATGATGCCTTTGATTCTTTAGAAAGGAAGTGTATGG

4570/6881
FIGURE 4212

MIGHPQGSVTPRPVTWKCAMAGVEANACVPTVIHLSMRQPQPLTAKGPVTAAKPGQEPIAKAVGAARILQSTAHL
PAALLRMSRPALPQLISGKTNPFQTWS

4571/6881
FIGURE 4213

CTCTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCAC
ATGCAGCCTATTCGCTGCACTAACTGTGCCCGATGCGTGCCCAAAGACAAGGCCATTAAGAAATTCGTCATTCGA
AACATAGTGGAGTCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTGCATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACCAAAGCCCATGTAAGGA
GGTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

4572/6881
FIGURE 4214

GTGAAACACCCTCGGCTGGGAAGTCAGTTCGTTCTCTCCTCTCCTCTCTTCTTGTTTGAAC**ATG**GTGCGGACTAA
AGCAGACAGTGTTCCAGGCACTTACAGAAAAGTGGTGGCTGCTCGAGCCCCCAGAAAGGTGCTTGGTTCTTCCAC
CTCTGCCACTAATTCGACATCAGTTTCATCGAGGAAAGCTGAAAATAAATATGCAGGAGGGAACCCCGTTTGCGT
GCGCCCAACTCCCAAGTGGCAAAAAGGAATTGGAGAATTCTTTAGGTTGTCCCCTAAAGATTCTGAAAAAGAGAA
TCAGATTCCTGAAGAGGCAGGAAGCAGTGGCTTAGGAAAAGCAAAGAGAAAGCATGTCCTTTGCAACCTGATCA
CACAAATGATGAAAAAGAA**TAG**AACTTTCTCATTCATCTTTGAATAACGTCTCCTTGTTTACCCTGGTATTCTAG
AATGTAAATTTACATAAATGTGTTTGTTCCAATTAGCTTTGTTGAACAGGCATTTAATTAAAAAATTTAGGTTTA
AATTTAGATGTTCAAAAGTAGTTGTGAAATTTGAGAATTTGTAAGACTAATTATGGTAACTTAGCTTAGTATTCA
ATATAATGCATTGTTTGGTTTCTTTTACCAAATTAAGTGTCTAGTTCTTGCTAAAATCAAGTCATTGCATTGTGT
TCTAATTACAAGTATGTTGTATTTGAGATTTGCTTAGATTGTTGTACTGCTGCCATTTTTATTGGTGTTTGATTA
TTGGAATGGTGCCATATTGTCACTCCTTCTACTTGCTTTAAAAAGCAGAGTTAGATTTTGCACATTAAAAAATT
CAGTATTAATT

4573/6881
FIGURE 4215

MVRTKADSVPGTYRKVVAARAPRKVLGSSTSATNSTSVSSRKAENKYAGGNPVCVRPTPKWQKGIGEFFRLSPKD
SEKENQIPEEAGSSGLGKAKRKACPLQPDHTNDEKE

FIGURE 4216

AATATGGTGCTAAAAGAACTCCTTACCTTTCTCTGACTACAATTTATTTGGACATACTTTTGTATTGAAGAGAGG
TATACATACTGAAGCTACTTGCTGTACTATAGGAGACTCTGTCCTGTAGGATC<u>ATG</u>GACCATCCTAGTAGGGAAA
AGGATGAAAGACAACGGACAACTAAACCCATGGCACAAAGGAGTGCACACTGCTCTCGACCATCTGGCTCCTCAT
CGTCCTCTGGGGTTCTTATGGTGGGACCCAACTTCAGGGTTGGCAAGAAGATAGGATGTGGGAACTTCGGAGAGC
TCAGATTAGGTAAAAATCTCTACACCAATGAATATGTAGCAATCAAACTGGAACCAATAAAATCACGTGCTCCAC
AGCTTCATTTAGAGTACAGATTTTATAAACAGCTTGGCAGTGCAGGTGAAGGTCTCCCACAGGTGTATTACTTTG
GACCATGTGGGAAATATAATGCCATGGTGCTGGAGCTCCTTGGCCCTAGCTTGGAGGACTTGTTTGACCTCTGTG
ACCGAACATTTACTTTGAAGACGGTGTTAATGATAGCCATCCAGCTGCTTTCTCGAATGGAATACGTGCACTCAA
AGAACCTCATTTACCGAGATGTCAAGCCAGAGAACTTCCTGATTGGTCGACAAGGCAATAAGAAAGAGCATGTTA
TACACATTATAGACTTTGGACTGGCCAAGGAATACATTGACCCCGAAACCAAAAAACACATACCTTATAGGGAAC
ACAAAAGTTTAACTGGAACTGCAAGATATATGTCTATCAACACGCATCTTGGCAAAGAGCAAAGCCGGAGAGATG
ATTTGGAAGCCCTAGGCCATATGTTCATGTATTTCCTTCGAGGCAGCCTCCCCTGGCAAGGACTCAAGGCTGACA
CATTAAAAGAGAGATATCAAAAAATTGGTGACACCAAAAGGAATACTCCCATTGAAGCTCTCTGTGAGAACTTTC
CAGAGGAGATGGCAACCTACCTTCGATATGTCAGGCGACTGGACTTCTTTGAAAAACCTGATTATGAGTATTTAC
GGACCCTCTTCACAGACCTCTTTGAAAAGAAAGGCTACACCTTTGACTATGCCTATGATTGGGTTGGGAGACCTA
TTCCTACTCCAGTAGGGTCAGTTCACGTAGATTCTGGTGCATCTGCAATAACTCGAGAAAGCCACACACATAGGG
ATCGGCCATCACAACAGCAGCCTCTTCGAAATCAGAGCCTTAGGACTGTTACAGCTGAGCATTATGATGTTAACA
ACTCAGCCATCTGGCACAGGGGAAGAGGCACC<u>TAA</u>ACAGATTCTTCTGGACAAAAGTCACATATGAGCAAGATCA
GAATAGTAGCAGATGTAAAAAGCAGAATGTATCATCAGAGCGCCGAGGAGAGTGGGAAATTCAGCCCAGCCGGCA
GACCAATACCTCATACCTAACGTCTCACTTGGCTGCAGACCGCCATGGGGGATCAGTGCAGGTGGTTAGCTCAAC
CAATGGAGAGCTGAATGTTGATGATCCCACGGGAGCCCACTCCAATGCACCAATCACAGCTCATGCCGAGGTGGA
GGTAGTGGAGGAAGCTAAGTGCTGCTGTTTCTTTAAGAGGAAAAGGAAGAAGACTGCTCAGCGCCACAAGTGACC
AGTGCCTCCCAGGAGTCCTCAGGCCCTGGGGACTCTGACTCAATTGTACCTGCAGCTCCTGCCATTTCTCATTGG
AAGGGACTCCTCTTTGGGGGAGGGTGGATATCCAAACTAAAAAGAAGAAAACAGATGCCCCCAGAAGGGGCCAGT
GCGGGCAGCCAGGGCCTAGTGGGTCATTGGCCATCTCCGCCTGCCTAAGGCTCTGAGCAGGTCCCAGAGCTGCTG
TTCCTCCACTGCTTGCCCATAGGGCTGCCTGGTTGACTCTCCTTCCCATTGTTTACAGTGAAGGTGTCATTCACA

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FIGURE 4217

MDHPSREKDERQRTTKPMAQRSAHCSRPSGSSSSSGVLMVGPNFRVGKKIGCGNFGELRLGKNLYTNEYVAIKLE
PIKSRAPQLHLEYRFYKQLGSAGEGLPQVYYFGPCGKYNAMVLELLGPSLEDLFDLCDRTFTLKTVLMIAIQLLS
RMEYVHSKNLIYRDVKPENFLIGRQGNKKEHVIHIIDFGLAKEYIDPETKKHIPYREHKSLTGTARYMSINTHLG
KEQSRRDDLEALGHMFMYFLRGSLPWQGLKADTLKERYQKIGDTKRNTPIEALCENFPEEMATYLRYVRRLDFFE
KPDYEYLRTLFTDLFEKKGYTFDYAYDWVGRPIPTPVGSVHVDSGASAITRESHTHRDRPSQQQPLRNQSLRTVT
AEHYDVNNSAIWHRGRGT

4576/6881
FIGURE 4218

GGCACGAGGACGGCGCCCGCCGCCCGCCCGGAGCCCGCGAGCAACCCCAGTCCCCCCCACCCGCGCGTGGCGGCG
CCGGCTCCCTAGCCACCGCGGCCCCACCCTCTTCCGGCCTCAGCTGTCCGGGCTGCTTTCGCCTCCGCCTGTGG**A**
TGCTGCGCCTCTCCGAACGCAACATGAAGGTGCTCCTTGCCGCCGCCCTCATCGCGGGGTCCGTCTTCTTCCTGC
TGCTGCCGGGACCTTCTGCGGCCGATGAGAAGAAGAAGGGGCCCAAAGTCACCGTCAAGGTGTATTTTGACCTAC
GAATTGGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGGAAAGACTGTTCCAAAAACAGTGGATAATT
TTGTGGCCTTAGCTACAGGAGAGAAAGGATTTGGCTACAAAAACAGCAAATTCCATCGTGTAATCAAGGACTTCA
TGATCCAGGGCGGAGACTTCACCAGGGGAGATGGCACAGGAGGAAAGAGCATCTACGGTGAGCGCTTCCCCGATG
AGAACTTCAAACTGAAGCACTACGGGCCTGGCTGGGTGAGCATGGCCAACGCAGGCAAAGACACCAACGGCTCCC
AGTTCTTCATCACGACAGTCAAGACAGCCTGGCTAGATGGCAAGCATGTGGTGTTTGGCAAAGTTCTAGAGGGCA
TGGAGGTGGTGCGGAAGGTGGAGAGCACCAAGACAGACAGCCGGGATAAACCCCTGAAGGATGTGATCATCGCAG
ACTGCGGCAAGATCGAGGTGGAGAAGCCCTTTGCCATCGCCAAGGAG**TAG**GGCACAGGGACATCTTTCTTTGAGT
GACCGTCTGTGCAGGCCCTGTAGTCCGCCACAGGGCTTTGAGCTGCACTGGCCCCGGTGCTGGCATCTGGTGGAG
CGGACCCACTCCCCTCACATTCCACAGGCCCATGGACTCACTTTTGTAACAAACTCCTACCAACCCTGACCAATA
AAAAAAAATGTGGGTTTTTTTTTTTTTTAATAAAAAAAAAAAAAAAAAAAAA

4577/6881
FIGURE 4219

MLRLSERNMKVLLAAALIAGSVFFLLLPGPSAADEKKKGPKVTVKVYFDLRIGDEDVGRVIFGLFGKTVPKTVDN
FVALATGEKGFGYKNSKFHRVIKDFMIQGGDFTRGDGTGGKSIYGERFPDENFKLKHYGPGWVSMANAGKDTNGS
QFFITTVKTAWLDGKHVVFGKVLEGMEVVRKVESTKTDSRDKPLKDVIIADCGKIEVEKPFAIAKE

4578/6881
FIGURE 4220

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TGCCTTTCGCTGCTTGTTGGGGTTACAGGTGAAGGGGTTATGGGGTGAAGAACAACCCAGGGCCAGCGCTTGGCC
TTCCCGCCACCGTGGCGGCCGCCCCGCGCTGTCTGTGAGGCGCCAGTTCCGGGGCGCTGCTCCCGGCCTCCCCTC
GCTCTGAGGCTCGGGGTCCCCAGCTCCGCGTAAACTGCACGATTTCGCCCTCTGCTCAGCTCCCCTCTGCCCCCT
CTTTCCAAGAGAGACTTCCAGATCCCACATTTTCTTGACTGATTTTTAAGCATTTCTTCGTTTATAGCTGTCTGT
TTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGATGTATCCCTTTCCAT
GACCCGACCTGTGTCTATTGAGGGGTCCGAGGAATACCAGCGTAAGCACCTAGCAGCCCATGGTTTAACGATGCT
GTTTGAGCACATGGCCACAAATTACAAGCTTGAATTTACAGCACTTGTGGTTTTTTCATCACTTTGGGAGTTGAT
GGTCCCCTTCACGAGAGATTATAATACCCTACAGGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTT
GGAGTCTGCATTAGTTGGTGTTTGCAATATCGTTCAGCAAGAATGGGGTGGTGCAATTCCTTGCCAGGTTGTCCT
GGTGACAGACGGCTGTCTTGGCATTGGTAGAGGGTCACTGCGACATTCCCTAGCCACTCAAAATCAACGAAGTGA
GAGCAACAGGTTTCCACTACCTTTTCCTTTCCCATCTAAGTTATATATCATGTGCATGGCGAATTGGAGGAGCT
CCAGAGCACCGATTCCTTGGAATGCCTTGAACGTCTCATAGATTTAAACAATGGTGAAGGGCAGATTTTTACTAT
TGATGGCCCCCTGTGCTTGAAGAATGTACAGTCTATGTTTGGAAAACTGATAGATTTGGCATATACGCCTTTCCA
TGCTGTTCTCAAGTGTGGCCACCTAACTGCTGATGTACAAGTCTTCCCCAGGCCAGAACCTTTTGTTGTAGATGA
AGAAATTGATCCTATCCCTAAAGTCATTAACACAGATTTGGAAATAGTGGGATTTATTGATATAGCTGATATTTC
AAGTCCCCCAGTTCTGTCCAGACATCTGGTCTTACCTATAGCACTTAACAAAGAAGGTGATGAGGTGGGTACTGG
CATCACTGATGACAATGAAGATGAAAATTCAGCCAATCAGATTGCAGGCAAAATACCCAACTTTTGTGTCCTGCT
CCATGGTAGCCTAAAAGTGGAAGGAATGGTAGCGATTGTTCAATTAGGTCCTGAATGGCATGGAATGCTCTACTC
CCAAGCTGACAGCAAGAAGAAATCAAACCXTCATGATGTCTCTCTTTGAGCCTGGCCCAGAACCTCTCCCATGGC
TAGGGAAAATGGCACAGTTGGGTCCTATTTCAGATGCTAAAGAAAACCCTTATGGCGAGGATGACAATAAGAGTC
CATTCCCCCTGCAGCCCAAAAACAAACGCAGTTATGCCCAGAATGTGACTGTCTGGATCAAACCCAGCGGCCTGC
AGACAGATGTACAGAAGATTTTAAGAAATGCAAGGAAACTACCTGAAAAAACACAGACATTCTATAAGGAGCTGA
ACCGTTTGCGAAAGGCCGCTCTAGCCTTTGGTTTCCTGGACCTGCTGAAAGGGGTGGCTGACATGCTGGAAAGGG
AATGCACACTGCTGCCTGAGACAGCCCACCCTGATGCTGCATTCCAGCTGACCCATGCTGCCCAGCAGCTCAAGC
TGGCCAGTACCGGCACCTCTGAGTATGCCGCTTATGACCAGAACATCACACCTTTGCACACGGACTTCTCTGGGA
GCAGCACTGAAAGAATTTGAAACTGACTTTTGGAGCTTTCCTTCTTTTTTCATTTCAACTGAAAATGCTTTAGGT
AAAAACCTTTCCAGTATGTTCACCTCTAGAATAGCCACCCAAAGACCTTCCTGAGGCTGCCTCAGAAGCACCACT
TGCTGTTTTGAATGACTCTACTAGTATGAGAAGGATGTGAAGGTGGTTGGCTGGTTGGGCTTTAACTTCCTGGGA
TTCATAATTTTTAAGCTTGGAAGATAGCTGCTGTTCCCATGATGGGCACATTTCCTGAGAAGCTTGAATGACTGA
TGAGCATAGAGCACCCCTGCCTTCCTCAGGAAACCTGACCGGCAGGGGCTCTCTGGCTTCCTGAAAGCTTCACCT
CTTCCCTCGTTTATATCTCAACTGTAAGGGCATTTTCAAGCTTCTGTTCATGGAATGAGCAACTCAGACTGTCTG
GAGCTTGCTGAGTACAAACACACCACCACTAAGTTTCAGAACTTTCCTTAGAACTTGGGCAAAATGTGGTGGTAA
CTCTTAAGTGCTTTTGGTATCTCTTGAGATTCTAACTTTTAAAGAGCAACCATTAATGTGTAAAATGATTCCTAT
TATTCAAGGTTTTTTTTTAATGAAAATAAAATATTTGATTTCTAG
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FIGURE 4221

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GAGCGTGGGGTATCTCGAGGTGCCGGGTTGCAGGCGCTCAGGAGCGCTAGGGTTTGAGGCCTGCTTTCTGCTCGC
GCCAGCAGAGCACTACCTGAGGCAGCGAGGCGCAGCGAGCCTAGCCTCCCCGCGCCCTGGGCAGTGTGGCCATGG
AGAATCAGGTGTTGACGCCGCATGTCTACTGGGCTCAGCGACACCGCGAGCTATATCTGCGCGTGGAGCTGAGTG
ACGTACAGAACCCTGCCATCAGCATCACTGAAAACGTGCTGCATTTCAAAGCTCAAGGACATGGTGCCAAAGGAG
ACAATGTCTATGAATTTCACCTGGAGTTCTTAGACCTTGTGAAACCAGAGCCTGTTTACAAACTGACCCAGAGGC
AGGTAAACATTACAGTACAGAAGAAAGTGAGTCAGTGGTGGGAGAGACTCACAAAGCAGGAAAAGCGACCACTGT
TTTTGGCTCCTGACTTTGATCGTTGGCTGGATGAATCTGATGCGGAAATGGAGCTCAGAGCTAAGGAAGAAGAGC
GCCTAAATAAACTCCGACTGGAAAGCGAAGGCTCTCCTGAAACTCTTACAAACTTAAGGAAAGGATACCTGTTTA
TGTATAATCTTGTGCAATTCTTGGGATTCTCCTGGATCTTTGTCAACCTGACTGTGCGATTCTGTATCTTGGGAA
AAGAGTCCTTTTATGACACATTCCATACTGTGGCTGACATGATGTATTTCTGCCAGATGCTGGCAGTTGTGGAAA
CTATCAATGCAGCAATTGGAGTCACTACGTCACCGGTGCTGCCTTCTCTGATCCAGCTTCTTGGAAGAAATTTTA
TTTTGTTTATCATCTTTGGCACCATGGAAGAAATGCAGAACAAAGCTGTGGTTTTCTTTGTGTTTATTTGTGGA
GTGCAATTGAAATTTTCAGGTACTCTTTCTACATGCTGACGTGCATTGACATGGATTGGAAGGTGCTCACATGGC
TTCGTTACACTCTGTGGATTCCCTTATATCCACTGGGATGTTTGGCGGAAGCTGTCTCAGTGATTCAGTCCATTC
CAATATTCAATGAGACCGGACGATTCAGTTTCACATTGCCATATCCAGTGAAAATCAAAGTTAGATTTTCCTTTT
TTCTTCAGATTTATCTTATAATGATATTTTTAGGTTTATACATAAATTTTCGTCACCTTTATAAACAGCGCAGAC
GGCGCTATGGACAAAAAAAGAAAAAGATCCACTAAAAAGAAAGATTTAGATGGCTTCTTGCCAGTTTGAGCCTAA
TCTGATTCTTACAGTTTTACCTTCTTGAACCAATGTAAAAGTTTTTTTAATGTTAAATGATTAAATTCTCAGTGA
GGCTATCTTCCTTTTCCCCAGTAACATTCCTGAATTTACTGTTATCTTATTGTAGTACTTGCATGACATGGATTC
CTGATATCTGATGAGAGGTTCATTCTTGTGTATTCAGTTAATGACACCAAAAGGCTCAGCCCACCCCAACCCTAT
CTCATGTTCAGTCTGTCTAATACATGCCAGAGATTTTTTTTTCAAAAAGTGCTTTATCCCTACAATGTACTGACA
GTTCTTACAGTTGAGATTTGTTCTTTTCAGCTATTGCTTGTGAAAAAAAGCAAGACTATGTCACTCTATAGAAGG
CTGTTAAAGTGACTCAGGCA
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FIGURE 4222A

GGCACGAGGTCACCTGCCGTCCAGGTATCATCCTAGTCTTCCCTCCGTCTCTGGGATGGGAAACTCTTGTCTAGT
GATGTGACTCATTACGTGATCCCAGACTGGAAAGTTGTTCAAGATTATCTTGAGATCCTTGAGTTTCCTGAGTTG
AAGGGAATTATTTTCATGCAGACAGCTTGTCAAGCTGTGCAGCATCAAAGAGGCAGGAGACAGTATAACAAACTG
CGAAACCTGCTGAAGGATGCGCGTCATGATTGCATTCTCTTTGCTAATGAATTCCAGCAATGCTGCTATCTGCCA
CGGGAAAGAGGAGAGTCCATGGAGAAGTGGCAGACCAGGAGCATATACAACGCAGCTGTTTGGTACTATCATCAC
TGCCAGGACAGGATGCCAATTGTTATGGTGACAGAAGATGAAGAGGCAATTCAGCAGTATGGAAGTGAAACAGAA
GGAGTATTCGTGATTACTTTCAAGAATTACCTGGACAATTTCTGGCCTGATTTAAAAGCTGCCCACGAGCTTTGT
GATTCTATCCTTCAGTCTCGACGGGAGAGAGAGAATGAGAGTCAGGAGAGCCATGGGAAGGAGTACCCAGAACAT
CTTCCCCTGGAAGTGTTAGAAGCTGGGATTAAATCGGACGCTATATCCAGGGAATTCTGAATGTCAACAAACAC
AGAGCCCAAATAGAAGCTTTTGTTCGACTTCAAGGAGCCAGCAGTAAAGATTCAGATTTAGTCAGTGACATCCTA
ATCCACGGGATGAAGGCTCGAAACCGCTCAATTCATGGAGATGTGGTAGTTGTGGAGCTGCTTCCTAAAAATGAA
TGGAAAGGAAGAACCGTAGCCCTGTGTGAGAATGACTGTGACGACAAGGCTTCGGGCGAGTCCCCAAGTGAGCCC
ATGCCTACAGGTCGAGTGGTGGGCATACTTCAGAAGAACTGGCGGGATTATGTGGTGACATTTCCGTCCAAAGAA
GAGGTCCAATCTCAGGGCAAAAATGCTCAGAAAATCCTGGTTACACCTTGGGATTACAGAATTCCCAAAATTCGA
ATTAGCACTCAGCAAGCAGAAACCCTCCAGGACTTCAGGGTGGTCGTGCGCATCGATTCCTGGGAGTCAACATCT
GTGTATCCAAACGGACATTTTGTGCGTGTGTTTTAGGAAGAATCGGAGATCTGGAAGGGGGAAATTGCAACCATCCTG
GTGGAAAACAGTATTTCAGTTATTCCTTTCTCAGAAGCTCAGATGTGTGAGATGCCAGTAAACACACCAGAAAGT
CCCTGGAAGGTGAGTCCTGAAGAGGAACAAAAACGTAAAGACTTGAGGAAAAGCCATCTCGTATTCAGCATTGAC
CCCAAAGGTTGTGAAGATGTGGATGACACACTCTCAGTCAGAACCTTAAATAATGGCAACCTGGAACTTGGGGTC
CACATCGCAGATGTAACACACTTTGTGGCACCAAATTCTTACATTGATATTGAAGCTAGAACAAGGGCCACCACT
TATTATCTAGCAGATCGTCGCTATGACATGCTGCCTTCCGTCCTCAGTGCAGATTTGTGTTCCCTTCTGGGAGGC
GTTGATAGGTATGCTGTAAGCATCATGTGGGAACTGGATAAAGCCTCTTATGAAATTAAGAAAGTGTGGTATGGC
AGAACCATTATTCGATCAGCATACAAACTGTTCTATGAAGCAGCCCAAGAACTACTGGATGGAAACTTAAGCGTT
GTTGATGATATTCCAGAATTCAAAGACTTGGATGAGAAGAGCAGACAAGCCAAGCTGGAGGAGTTGGTGTGGGCA
ATTGGAAAGCTGACCGACATAGCTCGCCATGTCAGAGCTAAACGAGACGGATGTGGTGCCCTGGAACTGGAAGGG
GTAGAGGTTTGCGTACAGCTAGATGACAAAAAGAACATTCACGACCTCATCCCCAAGCAGCCCCTGGAAGTCCAC
GAGACAGTGGCTGAATGCATGATCCTGGCCAACCACTGGGTCGCCAAAAAGATCTGGGAGAGCTTCCCTCATCAG
GCCTTGCTGCGCCAGCACCCTCCTCCACACCAGGAGTTCTTTTCAGAACTCCGGGAATGTGCTAAAGCCAAAGGC
TTCTTCATAGATACACGGTCCAATAAAAACACTGGCTGATTCTCTGGATAATGCGAACGACCCCCACGATCCCATT
GTGAACAGGCTACTGCGCTCCATGGCCACGCAGGCCATGTCGAATGCTCTGTACTTCTCCACCGGATCCTGTGCG
GAGGAGGAGTTCCATCATTACGGTCTTGCATTAGATAAATATACCCACTTTACTTCTCCAATAAGAAGATATTCA
GATATTGTAGTACACCGCTTGTTAATGGCAGCCATTTCAAAAGATAAGAAAATGGAAATTAAGGGAAATCTGTTC
AGCAACAAAGATCTTGAGGAATTATGCAGACATATCAACAACAGAAACCAAGCAGCACAGCATTCTCAGAAGCAG
TCTACTGAGCTCTTCCAGTGCATGTACTTCAAAGACAAAGACCCTGCCACCGAGGAGCGTTGCATATCTGACGGA
GTTATTTATTCAATTAGAACAAATGGTGTGCTTCTATTTATACCAAGGTTTGGGATTAAAGGTGCTGCTTATCTA
AAAAATAAAGATGGTTTAGTCATCTCATGTGGCCCAGATAGCTGTTCTGAATGGAAACCAGGATCCCTTCAACGA
TTTCAAAACAAAATTACCTCTACTACAACAGATGGGGAATCTGTTACGTTCCATTTGTTTGACCATGTAACCGTA
AGAATATCCATACAGGCCTCACGTTGCCATTCTGATACAATCAGACTTGAAATAATTAGTAACAAACCATACAAG
ATACCAAATACAGAACTTATTCATCAGAGTTCCCCCTTGCTGAAGAGTGAGTTAGTGAAAGAAGTAACTAAATCT
GTGGAAGAAGCTCAGCTTGCCCAAGAAGTCAAAGTAAACATCATTCAGGAGGAATATCAAGAATATCGCCAAACA
AAGGGAAGGAGCCTATACACACTTCTAGAGGAGATACGGGACCTAGCTCTCCTGGATGTTTCAAACAATTATGGA
ATATGAGAGGCTCTTACTTCACTAAGAGCTGTCATATGTGAATGTTTTACAGTCTTTTCAAACTTAACATTTAAT
GTGTGTCACTCAGTGCTCTAGTCGATCAGGACTGGGTAGCTATTTCGCATATATGTAAAATGTTCTCAGCCGGGC
ACGGTGGCTCACGCCTGTAACCCCAGCACTTTGGGAGGCTGAGGCGGGCGGATCACGAGGTCAGGAGATTGAGAC
CATCCTGGCTAACACGGTGAAACCCAGTCTCTACTAAAAATACAAAAATTAGCCCGGCGTGGTGGCATGCGCCTG
TAGTCCCAGCTACTTGGGAGGCTGAAGCAGGAGAATTGCCTGAACCCAGGAAGAGGAGGTTGCAGTGAGCCGAGA
TCGCACCACTGCATTCCAGCCTGGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAAAGTT
CTCTCATTCATTAAAGTTGCATTAAATAAAGTATAATTAGGTCACTATGGAAACAGTTTTCAGTAATGAGTGGAC

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FIGURE 4222B

AGTAAGTGGTGGCTCTGCAGATGGCCCCTTTCTAATAAGTTTAATAAACCCGAAATTACTGGTTAAAAAAAAAA

AAAAAAAAAAAAAAAAAAAA

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FIGURE 4223

MQTACQAVQHQRGRRQYNKLRNLLKDARHDCILFANEFQQCCYLPRERGESMEKWQTRSIYNAAVWYYHHCQDRM
PIVMVTEDEEAIQQYGSETEGVFVITFKNYLDNFWPDLKAAHELCDSILQSRRERENESQESHGKEYPEHLPLEV
LEAGIKSGRYIQGILNVNKHRAQIEAFVRLQGASSKDSDLVSDILIHGMKARNRSIHGDVVVVELLPKNEWKGRT
VALCENDCDDKASGESPSEPMPTGRVVGILQKNWRDYVVTFPSKEEVQSQGKNAQKILVTPWDYRIPKIRISTQQ
AETLQDFRVVVRIDSWESTSVYPNGHFVRVLGRIGDLEGEIATILVENSISVIPFSEAQMCEMPVNTPESPWKVS
PEEEQKRKDLRKSHLVFSIDPKGCEDVDDTLSVRTLNNGNLELGVHIADVTHFVAPNSYIDIEARTRATTYYLAD
RRYDMLPSVLSADLCSLLGGVDRYAVSIMWELDKASYEIKKVWYGRTIIRSAYKLFYEAAQELLDGNLSVVDDIP
EFKDLDEKSRQAKLEELVWAIGKLTDIARHVRAKRDGCGALELEGVEVCVQLDDKKNIHDLIPKQPLEVHETVAE
CMILANHWVAKKIWESFPHQALLRQHPPPHQEFFSELRECAKAKGFFIDTRSNKTLADSLDNANDPHDPIVNRLL
RSMATQAMSNALYFSTGSCAEEEFHHYGLALDKYTHFTSPIRRYSDIVVHRLLMAAISKDKKMEIKGNLFSNKDL
EELCRHINNRNQAAQHSQKQSTELFQCMYFKDKDPATEERCISDGVIYSIRTNGVLLFIPRFGIKGAAYLKNKDG
LVISCGPDSCSEWKPGSLQRFQNKITSTTTDGESVTFHLFDHVTVRISIQASRCHSDTIRLEIISNKPYKIPNTE
LIHQSSPLLKSELVKEVTKSVEEAQLAQEVKVNIIQEEYQEYRQTKGRSLYTLLEEIRDLALLDVSNNYGI

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FIGURE 4224

GAACCGCCCCGCGCTGGGAATTTGCGGCGGCCTCCGCCGGGGCAGCCGAGCTGAACCGGTCTCTTCCTCGGAAAG
GCAGGGCCGAGGGGCCTGCGGGGCAGCC**ATG**GAGGCGACGCGGAGGCGGCAGCACCTGGGAGCGACGGGCGGCCC
AGGCGCGCAGCTGGGCGCCTCCTTCCTGCAGGCCAGGCATGGCTCTGTGAGCGCTGATGAGGCTGCCCGCACGGC
TCCCTTCCACCTCGACCTCTGGTTCTACTTCACACTGCAGAACTGGGTTCTGGACTTTGGGCGTCCCATTGCCAT
GCTGGTATTCCCTCTCGAGTGGTTTCCACTCAACAAGCCCAGTGTTGGGGACTACTTCCACATGGCCTACAACGT
CATCACGCCCTTTCTCTTGCTCAAGCTCATCGAGCGGTCCCCCCGCACCCTGCCACGCTCCATCACGTACGTGAG
CATCATCATCTTCATCATGGGTGCCAGCATCCACCTGGTGGGTGACTCTGTCAACCACCGCCTGCTCTTCAGTGG
CTACCAGCACCACCTGTCTGTCCGTGAGAACCCCATCATCAAGAATCTCAAGCCGGAGACGCTGATCGACTCCTT
TGAGCTGCTCTACTATTATGATGAGTACCTGGGTCACTGCATGTGGTACATCCCCTTCTTCCTCATCCTCTTCAT
GTACTTCAGCGGCTGCTTTACTGCCTCTAAAGCTGAGAGCTTGATTCCAGGGCCTGCCCTGCTCCTGGTGGCACC
CAGTGGCCTGTACTACTGGTACCTGGTCACCGAGGGCCAGATCTTCATCCTCTTCATCTTCACCTTCTTCGCCAT
GCTGGCCCTCGTCCTGCACCAGAAGCGCAAGCGCCTCTTCCTGGACAGCAACGGCCTCTTCCTCTTCTCCTCCTT
CGCACTGACCCTCTTGCTTGTGGCGCTCTGGGTCGCCTGGCTGTGGAATGACCCTGTTCTCAGGAAGAAGTACCC
GGGTGTCATCTACGTCCCTGAGCCCTGGGCTTTCTACACCCTTCACGTCAGCAGTCGGCAC**TGA**GTCCCTGGCAC
CAGGCTCTGGCGCTCTGCTGGGTGGGAGGGTGGGCCATGGAGGGCATCTGAATACAGGAGTAGGGGGGGTGTGGG
TGTGTAACCAGAGACCGAGAGCATGAGTGGGGTGTGCCTCGTGTGCGTGGATTCGTGTGTGTGTGTGTCTTGT
ATATGTGTGCGCAGAGTGCATCATTTTCAGACTCTACTATTTCCGTCAAGTTTCTGTTTGATTTGGATCATCTCA
GGATCGGATTCTGTTTTAGAGTGTTTCTGGGCCAGGATCCGGGCCCCTGCCCTCCTCTGCACCTGACCACACTCC
CTACTCAGGGCTAGTCTGTTCTTCCCGGACATCTTCTGGTAGCCGTGCAGGAGAGGGCTGGGTGGGGCAGAGGCC
AGGAGGGGACCTGGTGTGTCACCTGCCCACCACCTGGCTCATCCCTCAGGCCCACCCTGACCCTACATTACATAG
GTTACGTCAGCCTACTGTGGCTGTTGAGCAAAGCATTTCTCCTTTCTGGGCCTCATTTGCACTAGATGGGCCTGT
GGTCCCAAAGTAGGTCAGTAGGTTGGGGTTGCTGACACCCCTTGGGTGCAGCTTTGGGACAGATGAGTGGCTCTG
TCCTGTCACTGCCCTCTCCCTGCCTGGGGGCTATGTGCACTCCAGACCCCTGCCCAGGCTCAGGCCCATGAGGTA
TGGAGACACCCTGGCCCCCAGGAGCTGGAGGCACCGCCCACTCCCCTGGCATTCCAGCTTTGCAGGTGACCCTCC
TCTACCCAAAGCTCTGTCCCCCTGCTCCCACTCCAGAAGAACTGCGGCACGTGCTTCGGGCAGCCTAGCCACAGG
CTTTGAGCGCCTGCATTCCTGGGGGCTGGAGGGTGGGGTGCCAAAGGCCCTGAGCAAAAGCCAGAGCTCCTCTCA
TCAAAGCCTTTACAAGGTACTGGGCCCAGAGGCTTTGCCTTGACAGAGTGGCCCAGGGTTTCAAGGGAGGAGGAA
CCTCCCCCTACCTAGGACCCTTCCTGTGGGGGGTCTACAGAGTCAGGGACAGAAGGGAAGGGACCCACAGGAAGT
CACAGTGGTGCCCAGGGATGTGTCAGCCCCCAGCCACGGGGACGCGGGATTCAAGAATGAAGTAAATACAGTCAC
AGCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4225

MEATRRRQHLGATGGPGAQLGASFLQARHGSVSADEAARTAPFHLDLWFYFTLQNWVLDFGRPIAMLVFPLEWFP
LNKPSVGDYFHMAYNVITPFLLLKLIERSPRTLPRSITYVSIIIFIMGASIHLVGDSVNHRLLFSGYQHHLSVRE
NPIIKNLKPETLIDSFELLYYYDEYLGHCMWYIPFFLILFMYFSGCFTASKAESLIPGPALLLVAPSGLYYWYLV
TEGQIFILFIFTFFAMLALVLHQKRKRLFLDSNGLFLFSSFALTLLLVALWVAWLWNDPVLRKKYPGVIYVPEPW
AFYTLHVSSRH

FIGURE 4226

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GGCACGAGGCGCTCTTGCGGGAGCGTTCCGCATCGCCCCGGGGGCCCCTACGCGAGGATCTCCGGGGCCGTTGGC
AGCGCCTGGCACTTCTGAGCTCGGCGGACGAGAGCCTGCAGGTTTCCTCCAGTCAGGGACGGCGAAGGGCGGAAA
GCGCAGGAGGAGGCAGTGTTAGGCCTTAGGCCGGGTGGGCCGGGTCAGGAGAGACGCGCCCATCTTTCGCCATCC
GGGGTGCGCGAGGTCCTCTCGGGACCCGGCCGGCGACCCGTAGCTCGGGCACGCGCCTGTCGCATCCCGCAGGAA
GGAGGGGTCCGGCCTGAGGCCCGGGGCGGCGTCCGCCATGGAGATCCCCTCGGTCCAGGGCCGGCGCCTGGGACC
TGGCGGGCGGCCCTGACCGCCTTCCTCCCTGCGCGGGCTGGGTCGCGGACGTGCCCTTCGCGGCACTCGGCCTCC
TCTGCGTCTCCGCCTTCCCTGGGCCGCACTGCTGCCTGGGCGCGGCGGCGGCGACGGCGCCCTGTTGAATGGGCT
GTGAGGGCCCAGGTTTAAAGCGCTGGCGAACGCGGCCTCCGGGGGCGCACGGCAGCTGCAGCGGTGGCGACCAAA
CGGGTGTTGGAGTTGGCGGCGGCCATGGAGGGCCTGGCTGGCTATGTATACAAGGCGGCCAGCGAGGGCAAGGTG
CTGACTCTGGCCGCCTTGCTTCTCAACCGGTCTGAAAGCGACATCCGCTATCTGCTTGGCTATGTCAGCCAGCAG
GGAGGGCAGCGCTCCACGCCCCTCATCATCGCAGCCCGCAATGGACACGCAAAGGTGGTACGCTTGCTCTTAGAA
CATTACCGGGTGCAGACTCAGCAGACTGGCACCGTCCGCTTCGACGGGTATGTCATTGATGGTGCCACTGCTCTT
TGGTGTGCAGCTGGAGCAGGACATTTTGAAGTTGTTAAACTTCTAGTCAGCCATGGAGCCAACGTGAACCATACC
ACAGTAACTAATTCAACCCCCCTGCGGGCAGCATGCTTTGATGGCAGACTGGACATTGTGAAATACTTGGTTGAA
AATAATGCCAACATCAGCATTGCCAACAAATATGACAACACCTGCCTAATGATTGCGGCATATAAGGGACACACT
GATGTGGTCAGATACCTTTTAGAACAACGTGCTGATCCCAATGCCAAAGCACATTGTGGAGCCACAGCATTGCAC
TTTGCAGCTGAAGCTGGGCACATAGATATTGTGAAAGAGCTGATAAAATGGCGTGCTGCTATAGTAGTGAATGGC
CATGGGATGACGCCATTGAAAGTAGCTGCCGAAAGCTGTAAAGCTGATGTCGTAGAACTGTTACTCTCTCATGCT
GATTGCGACCGAAGAAGTCGGATTGAAGCTTTGGAACTCTTGGGTGCCTCCTTTGCAAATGACCGTGAGAACTAT
GACATCATAAAGACATACCACTATCTATATTTAGCCATGTTAGAGAGGTTCCAAGATGGTGATAACATTCTCGAA
AAAGAGGTTCTTCCACCAATCCATGCTTATGGGAATAGAACTGAATGTAGAAATCCTCAGGAACTGGAGTCCATT
CGGCAAGACAGAGATGCTCTTCATATGGAAGGCCTTATAGTTCGGGAACGGATTTTAGGTGCTGACAATATTGAT
GTTTCTCATCCCATCATTTACAGAGGAGCTGTTTATGCGGATAATATGGAATTTGAGCAGTGTATCAAGTTGTGG
CTTCATGCCCTGCACCTCAGACAAAAAGGTAACAGGAACACCCACAAGGATCTTCTTCGATTTGCTCAAGTTTTC
TCACAAATGATACATTTGAATGAAACTGTGAAGGCCCCAGACATAGAATGTGTTTTGAGATGCAGTGTTTTGGAA
ATAGAACAAAGTATGAACAGAGTGAAAAATATTTCAGATGCTGATGTCCACAATGCTATGGACAATTATGAATGT
AATCTCTATACCTTTCTGTATTTAGTGTGCATCTCTACCAAAACACAGTGCAGCGAAGAAGATCAGTGCAAAATT
AACAAGCAGATCTACAACCTGATTCACCTTGATCCCAGAACTCGTGAAGGTTTCACCTTGCTGCATCTGGCTGTC
AACTCCAATACTCCAGTTGATGATTTCCACACCAATGACGTCTGCAGCTTTCCAAATGCACTTGTCACAAAGCTC
CTGCTGGACTGTGGTGCTGAGGTGAATGCCGTGGACAATGAGGGAAACAGTGCCCTTCATATTATCGTTCAGTAC
AACAGGCCCATCAGTGATTTTTTGACCTTGCACTCCATCATCATTAGCCTAGTTGAAGCCGGAGCTCACACTGAC
ATGACGAATAAACAGAATAAGACTCCGCTAGACAAAAGTACAACTGGGGTATCTGAAATACTGCTTAAAACTCAA
ATGAAGATGAGTCTCAAGTGCCTGGCTGCCCGAGCAGTTCGGGCTAATGACATTAACTACCAAGACCAGATCCCC
AGAACTCTTGAAGAGTTTGTTGGATTTCATTAAGTGACTGGATATGTAAAGTCGTTTAATGTGGTGCTAAAAAGT
AAAGGACTTTTAATCACAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 4227

MEGLAGYVYKAASEGKVLTLAALLLNRSESDIRYLLGYVSQQGGQRSTPLIIAARNGHAKVVRLLLEHYRVQTQQ
TGTVRFDGYVIDGATALWCAAGAGHFEVVKLLVSHGANVNHTTVTNSTPLRAACFDGRLDIVKYLVENNANISIA
NKYDNTCLMIAAYKGHTDVVRYLLEQRADPNAKAHCGATALHFAAEAGHIDIVKELIKWRAAIVVNGHGMTPLKV
AAESCKADVVELLLSHADCDRRSRIEALELLGASFANDRENYDIIKTYHYLYLAMLERFQDGDNILEKEVLPPIH
AYGNRTECRNPQELESIRQDRDALHMEGLIVRERILGADNIDVSHPIIYRGAVYADNMEFEQCIKLWLHALHLRQ
KGNRNTHKDLLRFAQVFSQMIHLNETVKAPDIECVLRCSVLEIEQSMNRVKNISDADVHNAMDNYECNLYTFLYL
VCISTKTQCSEEDQCKINKQIYNLIHLDPRTREGFTLLHLAVNSNTPVDDFHTNDVCSFPNALVTKLLLDCGAEV
NAVDNEGNSALHIIVQYNRPISDFLTLHSIIISLVEAGAHTDMTNKQNKTPLDKSTTGVSEILLKTQMKMSLKCL
AARAVRANDINYQDQIPRTLEEFVGFH

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FIGURE 4228

CCTTTCCTCAGCTGCCGCCAAGGTGCTCGGTCCTTCCGAGGAAGCTAAGGCTGCGTTGGGGTGAGGCCCTCACTT
CATCCGGCGACTAGCACCGCGTCCGGCAGCGCCAGCCCTACACTCGCCCGCGCCATGGCCTCTGTCTCCGAGCTC
GCCTGCATCTACTCGGCCCTCATTCTGCACGACGATGAGGTGACAGTCACGGAGGATAAGATCAATGCCCTCATT
AAAGCAGCCGGTGTAAATGTTGAGCCTTTTTGGCCTGGCTTGTTTGCAAAGGCCCTGGCCAACGTCAACATTGGG
AGCCTCATCTGCAATGTAGGGGCCGGTGGACCTGCTCCAGCAGCTGGTGCTGCACCAGCAGGAGGTCCTGCCCCC
TCCACTGCTGCTGCTCCAGCTGAGGAGAAGAAAGTGGAAGCAAAGAAAGAAGAATCCGAGGAGTCTGATGATGAC
ATGGGCTTTGGTCTTTTTGACTAAACCTCTTTTATAACATGTTCAATAAAAAGCTGAACTTT

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FIGURE 4229

MASVSELACIYSALILHDDEVTVTEDKINALIKAAGVNVEPFWPGLFAKALANVNIGSLICNVGAGGPAPAAGAA
PAGGPAPSTAAAPAEEKKVEAKKEESEESDDDMGFGLFD

FIGURE 4230A

CGCAGGTGGCAGGCAGGTGGGGCTGGTACAGCCCGCGCCGCCTCTGCTGCAGCCGCTGCCGTCTACTCCTTGCGC
GCTGGCACTCCGCAGCCTTTAAGGTTCGCGCGGGGGCCAGGCAAGAGTTAGCC**ATG**AAGAGCCTCAAGTCCCGCC
TGAGGAGGCAGGACGTGCCCGGCCCCGCGTCGTCTGGCGCCGCCGCCGCCAGCGCGCATGCAGCAGATTGGAATA
AATATGATGACCGATTGATGAAAGCAGCAGAAAGGGGGGATGTAGAAAAAGTGACCTCAATCCTTGCTAAAAAGG
GGGTCAATCCAGGCAAACTAGATGTGGAAGGCAGATCTGTCTTCCATGTTGTGACCTCAAAGGGGAATCTTGAGT
GTTTGAATGCCATCCTTATACÀTGGAGTTGATATTACAACCAGTGACACTGCAGGGAGAAATGCTCTTCACCTGG
CTGCTAAGTATGGACATGCATTGTGCCTACAAAAACTTCTACAGTACAATTGTCCCACTGAGCATGCAGACCTGC
AGGGAAGAACTGCACTTCACGATGCCGCAATGGCAGATTGTCCTTCTAGCATACAGCTGCTTTGTGACCATGGGG
CCTCTGTGAATGCCAAAGATGTAGACGGGCGGACACCACTTGTTCTGGCTACTCAGATGAGTAGGCCAACAATAT
GTCAACTGCTGATAGATAGAGGAGCGGATGTTAATTCCAGAGACAAACAAAACAGAACTGCCCTCATGCTAGGTT
GCGAATATGGTTGCAGAGATGCAGTAGAAGTCTTAATTAAAAATGGTGCTGATATAAGCTTGCTGGATGCGCTTG
GCCATGATAGTTCTTACTATGCAAGAATTGGTGACAATCTGGACATTCTAACCTTGTTGAAGACTGCATCGGAAA
ATACCAACAAAGGGAGAGAACTTTGGAAGAAAGGGCCATCTTTGCAACAGCGAAATTTGACACACATGCAAGATG
AAGTAAATGTGAAGTCACATCAGAGGGAGCATCAAAATATTCAGGATTTGGAGATTGAAAATGAAGATTTGAAAG
AGAGGTTGAGAAAAATTCAGCAAGAACAAAGAATACTTTTGGATAAAGTCAATGGTTTACAGTTACAGCTGAATG
AGGAAGTTATGGTTGCTGATGATCTGGAAAGCGAGAGAGAAAAGCTGAAGTCCCTTTTGGCAGCTAAAGAAAAGC
AACATGAAGAAAGCTTAAGGACTATTGAGGCTCTGAAAAATAGATTTAAATATTTTGAGAGTGATCATTTAGGAT
CAGGAAGTCATTTCAGTAACCGAAAAGAAGATATGCTTCTTAAACAAGGTCAGATGTATATGGCAGACTCACAGT
GTACTTCCCCAGGTATACCAGCCCATATGCAAAGCAGATCTATGTTAAGACCTCTGGAACTATCTTTACCCAGTC
AAACGTCATACTCTGAAAATGAAATTTTAAAGAAAGAGTTAGAAGCAATGCGAACTTTCTGTGAGTCAGCAAAAC
AAGACCGACTGAAGCTCCAAAATGAACTGGCACACAAAGTGGCAGAATGCAAAGCTTTAGCATTAGAATGTGAAA
GGGTCAAGGAGGATTCAGATGAACAGATAAAGCAATTAGAAGATGCATTAAAAGATGTGCAGAAGAGGATGTATG
AGTCAGAAGGTAAAGTTAAACAAATGCAGACCCATTTTCTTGCCCTTAAAGAACACTTAACAAGTGAAGCAGCCT
CAGGGAATCACAGACTAACCGAGGAACTGAAGGATCAGTTGAAAGACTTGAAAGTAAAATATGAAGGTGCTTCAG
CAGAAGTGGGGAAATTAAGAAACCAAATCAAACAAAATGAGATGATAGTAGÀAGAGTTTAAGAGGGATGAAGGCA
AGCTGATAGAAGAAAATAAGCGATTACAGAAGGAACTTAGTATGTGTGAAATGGAGCGAGAGAAGAAAGGAAGAA
AGGTCACAGAGATGGAAGGCCAGGCAAAAGAATTGTCAGCGAAGTTGGCCCTTTCCATTCCAGCTGAAAAATTTG
AAAACATGAAGAGCTCATTATCAAATGAAGTGAATGAGAAAGCAAAAAAATTAGTAGAAATGGAAAGAGAACATG
AAAAATCACTTAGTGAAATTAGACAGTTAAAGAGAGAACTTGAGAATGTTAAGGCCAAGCTTGCTCAGCACGTCA
AACCAGAGGAACATGAACAGGTTAAGAGCAGATTAGAACAGAAATCAGGAGAACTTGGGAAGAAGATCACTGAGT
TAACATTGAAAAATCAGACACTACAAAAGGAAATTGAAAAAGTTTATTTGGATAATAAGCTCCTCAAGGAGCAAG
CACATAACTTAACAATTGAAATGAAAAATCATTATGTTCCTTTAAAAGTAAGTGAAGACATGAAAAAGTCACATG
ATGCAATTATTGATGATCTTAATAGAAAGCTTTTAGATGTAACACAAAAATATACAGAAAAGAAGTTGGAAATGG
AGAAATTGCTACTGGAAAATGACAGCTTAAGTAAGGATGTAAGCCGCCTAGAAACTGTGTTTGTACCTCCTGAGA
AACATGAAAAAGAGATAATAGCTCTGAAATCCAATATTGTTGAACTTAAGAAACAGCTGTCTGAACTTAAGAAAA
AATGTGGTGAAGACCAGGAGAAAATACACGCTCTCACATCTGAAAACACTAACTTGAAGAAGATGATGAGTAATC
AGTATGTGCCAGTTAAAAACCCATGAAGAGGTTAAAATGACACTGAATGACACGTTAGCCAAAACTAACAGAGAAT
TATTAGATGTGAAGAAAAAATTTGAAGATATAAATCAGGAATTTGTAAAAATAAAAGATAAGAATGAAATATTAA
AAAGAAACCTGGAAAACACTCAGAACCAAATAAAAGCTGAGTACATCAGCCTGGCAGAGCACGAGGCAAAGATGA
GCTCGCTAAGTCAGAGCATGAGAAAGGTGCAGGATAGTAATGCTGAAATCTTGGCCAACTACAGAAAAGGCCAAG
AAGAGATTGTGACACTGCATGCCGAAATTAAAGCCCAGAAGAAGGAGCTCGACACAATACAAGAATGCATTAAGG
TAAAATACGCCCCAATTGTCAGCTTTGAGGAGTGCGAGAGAAAATTTAAAGCAACAGAGAAGAACTAAAAGACC
AGTTATCAGAGCAGACACAAAAGTATAGTGTCAGTGAAGAAGAAGTCAAGAAAAACAAGCAAGAGAATGACAAGT
TAAAGAAGGAGATTTTTACCCTTCAGAAAGATTTGAGAGATAAGACAGTTCTCATTGAGAAGTCTCATGAAATGG
AAAGAGCATTAAGCAGAAAAACAGACGAGCTAAACAAACAGTTAAAAGACTTGTCACAGAAATACACGGAAGTAA
AGAATGTGAAAGAGAAGCTAGTAGAAGAAATGCCAAACAGACTTCTGAGATACTTGCAGTGCAAAATCTTTTGC
AAAAACAACATGTTCCATTGGAACAGGTTGAGGCTCTGAAAAAATCTCTTAATGGCACAATTGAAAATCTAAAGG
AAGAACTGAAGAGTATGCAAAGGTGTTACGAGAAAGAGCAGCAGACAGTGACCAAACTGCATCAATTGTTGGAGA

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FIGURE 4230B

ATCAAAAGAACTCTTCTGTACCCCTGGCAGAGCATTTGCAGATTAAAGAAGCATTTGAGAAAGAAGTTGGAATCA
TAAAAGCCAGCTTGAGAGAAAAGGAAGAAGAAAGCCAAAACAAAATGGAAGAAGTCTCCAAACTTCAGTCGGAGG
TTCAGAATACTAAACAAGCATTAAAAAAATTAGAGACTAGAGAGGTAGTTGACTTGTCTAAATATAAAGCAACAA
AAAGTGATTTGGAGACACAGATTTCTAGCTTAAATGAAAAATTGGCCAATCTGAATAGAAAGTATGAGGAAGTAT
GTGAGGAAGTTTTGCATGCCAAAAAGAAGGAAATATCTGCAAAAGATGAGAAGGAATTACTGCATTTCAGCATTG
AGCAAGAAATTAAGGATCAGAAGGAACGATGTGATAAGTCCTTAACAACAATCACAGAGTTACAAAGAAGAATAC
AAGAATCTGCTAAACAAATAGAAGCAAAAGATAATAAGATAACTGAACTGCTTAATGATGTGGAAAGATTAAAAC
AGGCACTCAATGGCCTTTCCCAACTCACCTACACAAGTGGGAACCCCACCAAGAGGCAGAGCCAGCTGATTGACA
CTCTGCAGCACCAAGTGAAATCTCTGGAGCAACAGCTGGCCGATGCTGACAGACAGCACCAAGAAGTAATTGCAA
TTTATCGGACACACCTTCTTAGTGCTGCACAGGGTCACATGGATGAAGATGTTCAGGAGGCTCTGCTCCAGATCA
TACAAATGCGGCAGGGGCTTGTGTGC**TAG**CCGTTAGCACTGACTGCCAGTATCTGTTTTATCTTGCTGGTGCTGA
ACATTCTTTGTGCAACTCCATGGTCTTTCTGGGCCTTACTGTGCTGGTATAATTAAAATAAAATATATTTTGTTC
T

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FIGURE 4231

MKSLKSRLRRQDVPGPASSGAAAASAHAADWNKYDDRLMKAAERGDVEKVTSILAKKGVNPGKLDVEGRSVFHVV
TSKGNLECLNAILIHGVDITTSDTAGRNALHLAAKYGHALCLQKLLQYNCPTEHADLQGRTALFLKAMADCPSSI
QLLCDHGASVNAKDVDGRTPLVLATQMSRPTICQLLIDRGADVNSRDKQNRTALMLGCEYGCRDAVEVLIKNGAD
ISLLDALGHDSSYYARIGDNLDILTLLKTASENTNKGRELWKKGPSLQQRNLTHMQDEVNVKSHQREHQNIQDLE
IENEDLKERLRKIQQEQRILLDKVNGLQLQLNEEVMVADDLESEREKLKSLLAAKEKQHEESLRTIEALKNRFKY
FESDHLGSGSHFSNRKEDMLLKQGQMYMADSQCTSPGIPAHMQSRSMLRPLELSLPSQTSYSENEILKKELEAMR
TFCESAKQDRLKLQNELAHKVAECKALALECERVKEDSDEQIKQLEDALKDVQKRMYESEGKVKQMQTHFLALKE
HLTSEAASGNHRLTEELKDQLKDLKVKYEGASAEVGKLRNQIKQNEMIVEEFKRDEGKLIEENKRLQKELSMCEM
EREKKGRKVTEMEGQAKELSAKLALSIPAEKFENMKSSLSNEVNEKAKKLVEMEREHEKSLSEIRQLKRELENVK
AKLAQHVKPEEHEQVKSRLEQKSGELGKKITELTLKNQTLQKEIEKVYLDNKLLKEQAHNLTIEMKNHYVPLKVS
EDMKKSHDAIIDDLNRKLLDVTQKYTEKKLEMEKLLLENDSLSKDVSRLETVFVPPEKHEKEIIALKSNIVELKK
QLSELKKKCGEDQEKIHALTSENTNLKKMMSNQYVPVKTHEEVKMTLNDTLAKTNRELLDVKKKFEDINQEFVKI
KDKNEILKRNLENTQNQIKAEYISLAEHEAKMSSLSQSMRKVQDSNAEILANYRKGQEEIVTLHAEIKAQKKELD
TIQECIKVKYAPIVSFEECERKFKATEKELKDQLSEQTQKYSVSEEEVKKNKQENDKLKKEIFTLQKDLRDKTVL
IEKSHEMERALSRKTDELNKQLKDLSQKYTEVKNVKEKLVEENAKQTSEILAVQNLLQKQHVPLEQVEALKKSLN
GTIENLKEELKSMQRCYEKEQQTVTKLHQLLENQKNSSVPLAEHLQIKEAFEKEVGIIKASLREKEEESQNKMEE
VSKLQSEVQNTKQALKKLETREVVDLSKYKATKSDLETQISSLNEKLANLNRKYEEVCEEVLHAKKKEISAKDEK
ELLHFSIEQEIKDQKERCDKSLTTITELQRRIQESAKQIEAKDNKITELLNDVERLKQALNGLSQLTYTSGNPTK
RQSQLIDTLQHQVKSLEQQLADADRQHQEVIAIYRTHLLSAAQGHMDEDVQEALLQIIQMRQGLVC

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FIGURE 4232

GCAGTCACTGCCGACCGGCTGGCTGGGCCTTGCGGCGTGAGGACCCCGGCGGCGCCGCAGTCCCGCGAGCCATGG
CCCAGTCCGGCGGGGAGGCTCGGCCCGGGCCCAAGACGGCGGTGCAGATCCGCGTCGCCATCCAGGAGGCCGAGG
ACGTGGACGAGTTGGAGGACGAGGAGGAGGGGGCGGAGACTCGGGGCGCCGGGGACCCGGCCCGGTACCTCAGCC
CCGGCTGGGGCAGCGCGAGCGAGGAGGAGCCGAGCCGCGGGCACAGTGGCACCACTGCAAGTGGAGGTGAGAATG
AGCGTGAGGACCTGGAGCAGGAGTGGAAGCCCCCGGATGAGGAGTTGATCAAGAAACTGGTGGATCAGATCGAAT
TCTGCTTTTCTGATGAAAACCTGGAGAAGGACGCCTTTTTGCTAAAACACGTGAGGAGGAACAAGCTGGGATATG
TGAGCGTTAAGCTACTCACATCCTTCAAAAAGGTGAAACATCTTACACGGGACTGGAGAACCACAGCACATGCTT
TGAAGTATTCAGTGGTCCTTGAGTTGAATGAGGACCACCGGAAGGTGAGGAGGACCACCCCCGTCCCACTGTTCC
CCAACGAGAACCTCCCCAGCAAGATGCTCCTGGTCTATGATCTCTACTTGTCTCCTAAGCTGTGGGCTCTGGCCA
CCCCCCAGAAGAATGGAAGGGTGCAAGAGAAGGTGATGGAACACCTGCTCAAGCTTTTTGGGACTTTTGGAGTCA
TCTCATCAGTGCGGATCCTCAAACCTGGGAGAGAGCTGCCCCCTGACATCCGGAGGATCAGCAGCCGCTACAGCC
AAGTGGGGACCCAGGAGTGCGCCATCGTGGAGTTCGAGGAGGTGGAAGCAGCCATCAAAGCCCATGAGTTCATGA
TCACAGAATCTCAGGGCAAAGAGAACATGAAAGCTGTCCTGATTGGTATGAAGCCACCCAAAAAGAAACCTGCCA
AAGACAAAAATCATGACGAGGAGCCCACTGCGAGCATCCACCTGAACAAGTCCCTGAACAAGAGAGTCGAGGAGC
TTCAGTACATGGGTGATGAGTCTTCTGCCAACAGCTCCTCTGACCCCGAGAGCAACCCCACATCCCCTATGGCGG
GCCGACGGCACGCGGCCACCAACAAGCTCAGCCCGTCTGGCCACCAGAATCTCTTTCTGAGTCCAAATGCCTCCC
CGTGCACAAGTCCTTGGAGCAGCCCCTTGGCCCAACGCAAAGGCGTTTCCAGAAAGTCCCCACTGGCGGAGGAAG
GTAGACTGAACTGCAGCACCAGCCCTGAGATCTTCCGCAAGTGTATGGATTATTCCTCTGACAGCAGCGTCACTC
CCTCTGGCAGCCCCTGGGTCCGGAGGCGTCGCCAAGCCGAGATGGGGACCCAGGAGAAAAGCCCCGGTACGAGTC
CCCTGCTCTCCCGGAAGATGCAGACTGCAGATGGGCTACCCGTAGGGGTGCTGAGGTTGCCCAGGGGTCCTGACA
ACACCAGAGGATTTCATGGCCATGAGAGGAGCAGGGCCTGTGTATAAATACCTTCTATTTTTAATACAAGCTCCA
CTGAAAACCACCTTCGTTTTCAAGGTTCTGACAAACACCTGGCATGACAGAATGGAATTCGTTCCCCTTTGAGAG
ATTTTTTATTCATGTAGACCTCTTAATTTATCTATCTGTAATATACATAAATCGGTACGCCATGGTTTGAAGACC
ACCTTCTAGTTCAGGACTCCTGTTCTTCCCAGCATGGCCACTATTTTGATGATGGCTGATGTGTGTGAGTGTGAT
GGCCCTGAAGGGCTGTAGGACGGAGGTTCCCTGGGGGAAGTCTGTTCTTTGGTATGGAATTTTTCTCTCTTCTTT
GGTATGGAATTTTTCCCTTCAGTGACTGAGCTGTCCTCGATAGGCCATGCAAGGGCTTCCTGAGAGTTCAGGAAA
GTTCTCTTGTGCAACAGCAAGTAGCTAAGCCTATAGCATGGTGTCTTGTAGGACCAAATCGATGTTACCTGTCAA
GTAAATAAATAATAAAACACCCAACTGGGAGTGCTG

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FIGURE 4233

MAQSGGEARPGPKTAVQIRVAIQEAEDVDELEDEEEGAETRGAGDPARYLSPGWGSASEEEPSRGHSGTTASGGE
NEREDLEQEWKPPDEELIKKLVDQIEFCFSDENLEKDAFLLKHVRRNKLGYVSVKLLTSFKKVKHLTRDWRTTAH
ALKYSVVLELNEDHRKVRRTTPVPLFPNENLPSKMLLVYDLYLSPKLWALATPQKNGRVQEKVMEHLLKLFGTFG
VISSVRILKPGRELPPDIRRISSRYSQVGTQECAIVEFEEVEAAIKAHEFMITESQGKENMKAVLIGMKPPKKKP
AKDKNHDEEPTASIHLNKSLNKRVEELQYMGDESSANSSSDPESNPTSPMAGRRHAATNKLSPSGHQNLFLSPNA
SPCTSPWSSPLAQRKGVSRKSPLAEEGRLNCSTSPEIFRKCMDYSSDSSVTPSGSPWVRRRRQAEMGTQEKSPGT
SPLLSRKMQTADGLPVGVLRLPRGPDNTRGFHGHERSRACV

4594/6881
FIGURE 4234

<u>ATG</u>TCCATCAGGGTGACCCAGAAGTCCTACAAGATGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCTGCTCCTAC
ACAAGCTCTACACACCCAAAGAAGGAGCAGATCAAGGCCCTCAACAACAAGTTTGCCTCCTTCATAGACAAGGTA
TGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATGGCTCGGAAC
AACAAGAACAACATGTTCCAGAGCTATATCAACAACCTTAGGTGGCAGCTGGAGACTCTGAGCCAGGAGAAGCTG
AAGCTGGAGGTGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAATATGAGGATGAGATCAAT
AAGCGTACAGAGGTGGAGAATGAATTTGTCCTCATCAAGAAGGATGTGGATGAAGCTTACATGAACAAGATAGAG
CTGGAGTCTTGCCTGGAAGGGCTGACTGACGAGATGGACTTCCTCAGGCAGCTGTTTGAAGAGGAGATCTGGGAG
CTGCAGTCCCACATCTCGGACATATCTGTGGTGCTGTCCATGGACAACAGCTACTTCCTGGACACGGTCAGCATC
ATTGCTGAGGTCAAGGAGGAGATTGCCAACCGCAGCCAGGCGGAGGCTGAGAGCATGCACCAGATCAAGTATGAG
GAGCTGCAGACGCTGGCTGGGAAGCTTGGGCATGACCTGCAGCCTATAAAGACTGAGATCTCCGAGATGAACTGG
AACATCAGCCGGCTCCAGGCTGAGATTAAGGGCCTCAAAGGCCAGATGGCTTCCCTGGAGGCCACCATCGCAGAT
GTGGAGCAGCGTGGGGAGCTGGCCGTTAAGGATGCCAACGCCAAGCTGTCCGAGCTGGAGGCCTCTCTGCAATGG
GCCAGGCAGGATATGGTGTGGCAGCTGCGTGAGTACCAGGAGCTGATGAATGTCAAGCTGGCCTTGGGCATCAAA
ACTGCCACCTACAGGAAGCTGCTGGAGGGTGAGGAGAGCCGGCTGGAGTCTGGGATGCAGAACATGACAATCCAT
ACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCCACCTATGGGGACCTCACAAGCCCCGGCCTCAGCTAC
AGCCTGGGCTCCAGCTTTGGCTCTGGCGCAGGCTCCAGCTCCTTCAGCCGCACCGGCTCCACCAGGGCTGTGGTT
GAAGAAGAT<u>TGA</u>

4595/6881
FIGURE 4235

MSIRVTQKSYKMSTSGPRAFSSCSYTSSTHPKKEQIKALNNKFASFIDKVWFLEQQNKMLETKWSLLQQQKMARN
NKNNMFQSYINNLRWQLETLSQEKLKLEVELGNMQGLVEDFKNKYEDEINKRTEVENEFVLIKKDVDEAYMNKIE
LESCLEGLTDEMDFLRQLFEEEIWELQSHISDISVVLSMDNSYFLDTVSIIAEVKEEIANRSQAEAESMHQIKYE
ELQTLAGKLGHDLQPIKTEISEMNWNISRLQAEIKGLKGQMASLEATIADVEQRGELAVKDANAKLSELEASLQW
ARQDMVWQLREYQELMNVKLALGIKTATYRKLLEGEESRLESGMQNMTIHTKTTSGYAGGLSSTYGDLTSPGLSY
SLGSSFGSGAGSSSFSRTGSTRAVVEED

4596/6881
FIGURE 4236

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GCAGTACATTGAGCTCCACAGAGACAGCGCCAGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTCTGTGCCTC
GCTGAGGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGCTGAGAGGCAAAATGTCATCATATGCATTT
TTTGTGCAAACGTCGGGAGGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAAGAGTTTTCTAAGA
AGTGCCCATTATGAAAGAGAAATGAAAACCTACATCCCTCCCAAAGGGGAGACAAAAAAGAAGTTCAAGGATCCC
AATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCCTCTTCTGCTCTGAGTATCGCCCAAAAATCAAAGGAGAACAT
CCTGGCCTGTCCATTGGTGATGTTGCGAAGAAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAG
CCTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAG
CCTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAGGAA
GATGAAGAGGATGAGGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGAAGATGATGATGATGAATAAGTT
GGTTCTAGCGCAGTTTTTTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAACTCACTCCTTTTAAAGAA
AAAAACTGAAATGTAAGGCTGTGTAAGATTTGTTTTTAAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACT
ACCGAATGTGTCTTTAGATAGCCCTGTCCTGGTGGTATTTTCAATAGCCACTAACCTTGCTTGGTACAGTATGGG
GGTTGTAAATTGGCATGGAAATTTAAAGCAGGTTCTTGTTGGTGCACAGCACAAATTAGTTATATATGGGGATGG
TAGTTTTTTCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTGTTCTGTTAACTGAATACCACTC
TGTAATTGCAAAAAAAAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTT
TTTTATTAGTATTGTTGTCCTTTTCATAGGTCTGAAATTTTTCTTCTTGAGGGGAAGCTAGTCTTTGCTTTTGC
CCATTTTGAATCACATGAATTATTACAGTGTTTATCCTTTCATATAGTTAGCTAATAAAAAGCTTTTGTCTACCC
ACCCTGCATATCATAATGAGGGTAAAGTTAAGTTGAGATAGTTTTCATCCATAACTGAACATCCAAAATCTTGAT
CAGTTAAGAAATTTCACATAGCCCACTTACATTTACAAACTGAAGAGTAATCAATCTACTCAAAGCATGGGATTA
CTAGAATCAAACATTTTGAAAGTCTGTCCTTGAAGGACTAATAGAAAGTATGTTCTAACCTTTACATGAGGACT
CTATTCTTTAACTCCCATTACCATGTAATGGCAGTTATATTTGCAGTTCCCACATTAAAGAAGACCTGAGAATG
TATCCCCAAAAGCGTGAGCTTAAAATACAAGACTGCCATATTAAATTTTTGTTGACATTAGTCTCAGTGAAGAC
TATGAAAATGCTGGCTATAGATGTCTTTTCCCATTTATCTAAATATGGACTGCTCAGGAAACGAGACTTTCCATT
ACAAGTATTTTTAATTAATTGGGCCAGCTTTTCAAACAAAGATGCCACATTCAAAATAGGGTATATTTTCCTATA
TTACGGTTTGCCCCTTTATAAATCCAAGTAGATAGGAGGAAAGAAGACACTTAAACTTTGCATCTCAGTATGAAT
TATTCAATTTATTTGAATGATTTTTCTTTACAAAACAAACTCATCATTAGTCATGTTTATCTGCTTAGCAGTTTA
GGGAACAATTTGGCAATTTTGTGGTTTTCGAGATTATCGTTTTCTTAAAGTGCCAGTATTTTAAAATAGCGTTCT
TATAATTTTACACGCTTTTGTGATGGAGTGCTGTTTTGTTATATAATTTTGACTTGGATTCTTTCCATTTGCATT
TGTTTATGTAATTTCAGGAGGAATACTGAACATCTGAGTCCTGGATGATACTAATAAACTAATAATTGCAGAGGT
TT
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FIGURE 4237

TTACAGGAAAAAGGCTCTTGCTATGAAAGTTAATCCATAAAATTACAAAAATGACTGTTTTGGCAGTACATTGAG
CTCCACAGAGACAGCGCCAGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTCTGTGCCTCGCTGAGGAAAAAT
AACTAAACATGGGCAAAGGAGATCCTAAGAAGCTGAGAGGCAAAATGTCATCATATGCATTTTTTGTGCAAACGT
CGGGAGGAGCATAAGAAGAAGCACCCAG**ATG**CTTCAGTCAACTTCTCAAGAGTTTTCTAAGAAGTGCTCAGAGAG
GTGGAAGACCATTTCTGCTAAAGACAAAGGAAAATTTCAAGATATGGCAAAGGTGGACAAGGCCCATTATGAAAG
AGAAATGAAAACCTACATCCCTCCCAAAGGGGAGACAAAAAAGAAGTTCAAGGATCCCAATGCACCCAAGAGGCC
TCCTTCGGCCTTCTTCCTCTTCTGCTCTGAGTATCGCCCAAAAATCAAAGGAGAACATCCTGGCCTGTCCATTGG
TGATGTTGCGAAGAAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGCCTTATGAAAAGAAGGC
TGCGAAGCTGAAGGAAAAATACGAAAGGATATTGCTGCATATCGAGCTAAAGGAAAGCCTGATGCAGCAAAAAA
GGGAGTTGTCAAGGCTGAAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAGGAAGATGAAGAGGATGAGGA
GGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGAAGATGATGATGATGAATAAGTTGGTTCTAGCGCAGTTTT
TTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAACTCACTCCTTTTAAAGAAAAAAACTGAAATGTAAG
GCTGTGTAAGATTTGTTTTTAAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATGTGTCTTTAG
ATAGCCCTGTCCTGGTGGTATTTTCAATAGCCACTAACCTTGCTTGGTACAGTATGGGGGTTGTAAATTGGCATG
GAAATTTAAAGCAGGTTCTTGTTGGTGCACAGCACAAATTAGTTATATATGGGGATGGTAGTTTTTTCATCTTCA
GTTGTCTCTGATGCAGCTTATACGAAATAATTGTTGTTCTGTTAACTGAATACCACTCTGTAATTGCAAAAAAAA
AAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTA

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FIGURE 4238

MLQSTSQEFSKKCSERWKTISAKDKGKFQDMAKVDKAHYEREMKTYIPPKGETKKKFKDPNAPKRPPSAFFLFCS
EYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAAKLKEKYEKDIAAYRAKGKPDAAKKGVVKAEKSK
KKKEEEEDEEDEEDESWF

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FIGURE 4239

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AGGTAATCTGTGAAAATGGTTCGCTATTCACTTGACCCGGAGAACCCCACGAAATCAGGCAAATCAAGAGGTTCC
AATCTTCGTGTTCACTTTAAGAACACTCGTGAAACTGCTCAGGCCATCAAGGGTATGCATATACGAAAAGCCACG
AAGTATCTGAAAGATGTCACTTTACAGAAACAGTGTGTACCATTCCGACATTACAACGGTGGAGTTGGCAGGTGT
GCGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCAAAAAGAGTGCTGAATTCTTGCTGCACATGCTT
AAAAACGCAGAGAGTAATGCTGAACTTAAGGGTTTAGATGTAGATTCTCTGGTCATTGAGCATATCCAAGTGAAC
AAAGCACCTAAGATGCACCGCCGGACCTACAGAGCTCATGGTCGGATTAACCCATACATGAGCTCTCCCTGCCAC
ATTGAGATGATCCTTACGGAAAAGGAACAGATTGTTCCTAAACCAGAAGAGGAGGTTGCCCAGAAGAAAAAGATA
TCCCAGAAGAAACTGAAGAAACAAAAACTTATGGCACGGGAGTAAATTCAGCATTAAAATAAATGTAATTAAAAG
G
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4600/6881
FIGURE 4240

MVRYSLDPENPTKSGKSRGSNLRVHFKNTRETAQAIKGMHIRKATKYLKDVTLQKQCVPFRHYNGGVGRCAQAKQ
WGWTQGRWPKKSAEFLLHMLKNAESNAELKGLDVDSLVIEHIQVNKAPKMHRRTYRAHGRINPYMSSPCHIEMIL
TEKEQIVPKPEEEVAQKKKISQKKLKKQKLMARE

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FIGURE 4241

GAATCAAAGTTCCTCTTGGGGAAATGGCAAGTCTTTAGGACAGGCGAGACCCTGTATGAATAGTACCAAAGCATT
ACTGCATGGTAGAGAACACACTCAATTAAAAATGTTAAGCTATCTGAAAAATAAAATGTGCAAGTCTTCAGGATG
GCACAAAACAAAGGTTAATGCTTCTTGGGGCACATTTCTTAGAGGGCTTGCTGAGTGTGTAAATATAATCGACTT
TTGTTTGTGTTACATGACTTCTGTGACTTCACTGAAAATCTGCACAATTCAGTTTCAGCTCTGGATTACTTCAGT
TGACCTTTGTGAAGGTTTTTATCTGTGTAGAATGGGTGTTTGACTTGTTTTAGCCTATTACGTTTTTATTTTCTT
TCACTCTGTATTAAAAGTAAAACTTACTAAAAGAAAAGAGGTTTGTGTTCACATTAAATGGTTTTGGATTGGCTT
TTTTTAGTGAGGCTTTCTGAACATTGAGATATCCTGAACTTAGAGCTCTTCAATCCTAAGATTTTCATGAAAAGC
CTCTCACTTGAACCCAAACCAGAGTACTCTTACTGCCTCTTTTCTAAATGTTCAGGAAAAGCATCGTCAGTTCAG
TCTTTTCAGAATGAGGGAGAAACATTTGCCTGCCTTGTAATAACAAGACTCAGCGCTTATTTTTTTAAACTGCAT
TTTAAAAATTGGATAGTATAATAACAATAAGGAGTAAGCCACCTTTTATAGGCACCCTGTAGTTTTATAGTTCTT
AATCCAAACATTTTATATTTCCTTCTTTTGGAAAAAACCTACATGCTACAAGCCACCATATGCACAGACTATACA
GTGAGTTGAGTTGCCTCTCCCACAGTCTTTGAGGCGAATTACAAAAGTCCAGCCATTATCATCTTCCTGAGTTAT
TATTTTGAAATGATTTTTTTGTACATTTTGGCTGCAGTATTGGTGGTAGAATATACTATAATATGGATCATCTCT
ACTTCTGTATTTATTTATTTATTACTAGACCTCAACCACAGTCTTCTTTTTCCCCTTCCACTGTCTTCTTTTTCC
CCTTCCACCTCTCTTTGCCTGTAAGATGTACTGTATGTAGTCATGCACTTTGTATTAATATATTAGAAATCTACA
GATCTGTTTTGTACTTTTTATACTGTTGGATACTTATAATCAAAACTTTTACTAGGGTATTGAATAAATCTAGTC
TTATTAGAAAATAAAAAATAAAAATAAAAAATAAATAAAAAA

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FIGURE 4242

GGCTGAGGCAGTGGCTCCTTGCACAGCAGCTGCACGCGCCGTGGCTCCGGATCTTCTTCGTCTTTGCAGCGTAGC
CCGAGTCGGTCAGCGCCAGAGGACCTCAGCAGCC<u>ATG</u>TCGAAGCCCCATAGTGAAGCCGGGACTGCCTTCATTCA
GACCCAGCAGCTGCACGCAGCCATGGCTGACACATTCCTGGAGCACATGTGCCGCCTGGACATTGATTCACCACC
CATCACAGCCCGGAACACTGGCATCATCTGTACCATTGGCCCAGCTTCCCGATCAGTGGAGACGTTGAAGGAGAT
GATTAAGTCTGGAATGAATGTGGCTCGTCTGAACTTCTCTCATGGAACTCATGAGTACCATGCGGAGACCATCAA
GAATGTGCGCACAGCCACGGAAAGCTTTGCTTCTGACCCCATCCTCTACCGGCCCGTTGCTGTGGCTCTAGACAC
TAAAGGACCTGAGATCCGAACTGGGCTCATCAAGGGCAGCGGCACTGCAGAGGTGGAGCTGAAGAAGGGAGCCAC
TCTCAAAATCACGCTGGATAACGCCTACATGGAAAAGTGTGACGAGAACATCCTGTGGCTGGACTACAAGAACAT
CTGCAAGGTGGTGGAAGTGGGCAGCAAGATCTACGTGGATGATGGGCTTATTTCTCTCCAGGTGAAGCAGAAAGG
TGCCGACTTCCTGGTGACGGAGGTGGAAAATGGTGGCTCCTTGGGCAGCAAGAAGGGTGTGAACCTTCCTGGGGC
TGCTGTGGACTTGCCTGCTGTGTCGGAGAAGGACATCCAGGATCTGAAGTTTGGGGTCGAGCAGGATGTTGATAT
GGTGTTTGCGTCATTCATCCGCAAGGCATCTGATGTCCATGAAGTTAGGAAGGTCCTGGGAGAGAAGGGAAAGAA
CATCAAGATTATCAGCAAAATCGAGAATCATGAGGGGGGTTCGGAGGTTTGATGAAATCCTGGAGGCCAGTGATGG
GATCATGGTGGCTCGTGGTGATCTAGGCATTGAGATTCCTGCAGAGAAGGTCTTCCTTGCTCAGAAGATGATGAT
TGGACGGTGCAACCGAGCTGGGAAGCCTGTCATCTGTGCTACTCAGATGCTGGAGAGCATGATCAAGAAGCCCCG
CCCCACTCGGGCTGAAGGCAGTGATGTGGCCAATGCAGTCCTGGATGGAGCCGACTGCATCATGCTGTCTGGAGA
AACAGCCAAAGGGGACTATCCTCTGGAGGCTGTGCGCATGCAGAACCTGATTGCCCGTGAGGCAGAGGCTGCCAT
CTACCACTTGCAATTATTTGAGGAACTCCGCCGCCTGGCGCCCATTACCAGCGACCCCACAGAAGCCACCGCCGT
GGGTGCCGTGGAGGCCTCCTTCAAGTGCTGCAGTGGGGCCATAATCGTCCTCACCAAGTCTGGCAGGTCTGCTCA
CCAGGTGGCCAGATACCGCCCACGTGCCCCCATCATTGCTGTGACCCGGAATCCCCAGCAGCTCGTCAGGCCCA
CCTGTACCGTGGCATCTTCCCTGTGCTGTGCAAGGACCCAGTCCAGGAGGCCTGGGCTGAGGACGTGGACCTCCG
GGTGAACTTTGCCATGAATGTTGGCAAGGCCCGAGGCTTCTTCAAGAAGGGAGATGTGGTCATTGTGCTGACCGG
ATGGCGCCCTGGCTCCGGCTTCACCAACACCATGCGTGTTGTTCCTGTGCCG<u>TGA</u>TGGACCCCAGAGCCCCTCCT
CCAGCCCCTGTCCCACCCCCTTCCCCCAGCCCATCCATTAGGCCAGCAACGCTTGTAGAACTCACTCTGGGCTGT
AACGTGGCACTGGTAGGTTGGGACACCAGGGAAGAAGATCAACGCCTCACTGAAACATGGCTGTGTTTGCAGCCT
GCTCTAGTGGGACAGCCCAGAGCCTGGCTGCCCCATCATGTGGCCCCACCCAATCAAGGGAAGAAGGAGGAATGC
TGGACTGGAGGCCCCTGGAGCCAGATGGCAAGAGGGTGACAGCTTCCTTTCCTGTGTGTACTCTGTCCAGTTCCT
TTAGAAAAAATGGATGCCCAGAGGACTCCCAACCCTGGCTTGGGGTCAAGAAACAGCCAGCAAGAGTTAGGGGCC
TTAGGGCACTGGGCTGTTGTTCCATTGAAGCCGACTCTGGCCCTGGCCCTTACTTGCTTCTCTAGCTCTCTAGGC
CTCTCCAGTTTGCACCTGTCCCCACCCTCCACTCAGCTGTCCTGCAGCAAACACTCCACCCTCCACCTTCCATTT
TCCCCCACTACTGCAGCACCTCCAGGCCTGTTGCCGC

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FIGURE 4243

MSKPHSEAGTAFIQTQQLHAAMADTFLEHMCRLDIDSPPITARNTGIICTIGPASRSVETLKEMIKSGMNVARLN
FSHGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELKKGATLKITLDNAYME
KCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKGADFLVTEVENGGSLGSKKGVNLPGAAVDLPAVSEKD
IQDLKFGVEQDVDMVFASFIRKASDVHEVRKVLGEKGKNIKIISKIENHEGVRRFDEILEASDGIMVARGDLGIE
IPAEKVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVANAVLDGADCIMLSGETAKGDYPLEAV
RMQNLIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEASFKCCSGAIIVLTKSGRSAHQVARYRPRAPI
IAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRVNFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTM
RVVPVP

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FIGURE 4244

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CCTCCGAGAGGGGAGACCAGCGGGCCATGACAAGCTCCAGGCTTTGGTTTTCGCTGCTGCTGGCGGCAGCGTTCG
CAGGACGGGCGACGGCCCTCTGGCCCTGGCCTCAGAACTTCCAAACCTCCGACCAGCGCTACGTCCTTTACCCGA
ACAACTTTCAATTCCAGTACGATGTCAGCTCGGCCGCGCAGCCCGGCTGCTCAGTCCTCGACGAGGCCTTCCAGC
GCTATCGTGACCTGCTTTTCGGTTCCGGGTCTTGGCCCCGTCCTTACCTCACAGGGAAACGGCATACACTGGAGA
AGAATGTGTTGGTTGTCTCTGTAGTCACACCTGGATGTAACCAGCTTCCTACTTTGGAGTCAGTGGAGAATTATA
CCCTGACCATAAATGATGACCAGTGTTTACTCCTCTCTGAGACTGTCTGGGGAGCTCTCCGAGGTCTGGAGACTT
TTAGCCAGCTTGTTTGGAAATCTGCTGAGGGCACATTCTTTATCAACAAGACTGAGATTGAGGACTTTCCCCGCT
TTCCTCACCGGGGCTTGCTGTTGGATACATCTCGCCATTACCTGCCACTCTCTAGCATCCTGGACACTCTGGATG
TCATGGCGTACAATAAATTGAACGTGTTCCACTGGCATCTGGTAGATGATCCTTCCTTCCCATATGAGAGCTTCA
CTTTTCCAGAGCTCATGAGAAAGGGGTCCTACAACCCTGTCACCCACATCTACACAGCACAGGATGTGAAGGAGG
TCATTGAATACGCACGGCTCCGGGGTATCCGTGTGCTTGCAGAGTTTGACACTCCTGGCCACACTTTGTCCTGGG
GACCAGGTATCCCTGGATTACTGACTCCTTGCTACTCTGGGTCTGAGCCCTCTGGCACCTTTGGACCAGTGAATC
CCAGTCTCAATAATACCTATGAGTTCATGAGCACATTCTTCTTAGAAGTCAGCTCTGTCTTCCCAGATTTTTATC
TTCATCTTGGAGGAGATGAGGTTGATTTCACCTGCTGGAAGTCCAACCCAGAGATCCAGGACTTTATGAGGAAGA
AAGGCTTCGGTGAGGACTTCAAGCAGCTGGAGTCCTTCTACATCCAGACGCTGCTGGACATCGTCTCTTCTTATG
GCAAGGGCTATGTGGTGTGTGGCAGGAGGTGTTTGATAATAAAGTAAAGATTCAGCCAGACACAATCATACAGGTGT
GGCGAGAGGATATTCCAGTGAACTATATGAAGGAGCTGGAACTGGTCACCAAGGCCGGCTTCCGGGCCCTTCTCT
CTGCCCCCTGGTACCTGAACCGTATATCCTATGGCCCTGACTGGAAGGATTTCTACATAGTGGAACCCCTGGCAT
TTGAAGGTACCCCTGAGCAGAAGGCTCTGGTGATTGGTGGAGAGGCTTGTATGTGGGGAGAATATGTGGACAACA
CAAACCTGGTCCCCAGGCTCTGGCCCAGAGCAGGGGCTGTTGCCGAAAGGCTGTGGAGCAACAAGTTGACATCTG
ACCTGACATTTGCCTATGAACGTTTGTCACACTTCCGCTGTGAATTGCTGAGGCGAGGTGTCCAGGCCCAACCCC
TCAATGTAGGCTTCTGTGAGCAGGAGTTTGAACAGACCTGAGCCCCAGGCACCGAGGAGGGTGCTGGCTGTAGGT
GAATGGTAGTGGAGCCAGGCTTCCACTGCATCCTGGCCAGGGGACGGAGCCCCTTGCCTTCGTGCCCCTTGCCTG
CGTGCCCCTGTGCTTGGAGAGAAAGGGGCCGGTGCTGGCGCTCGCATTCAATAAAGAGTAATGTGGCATTTTTCT
ATAATAAACATGGATTACCTGTGTTTAAAAAAAAAAAGTGTGAATGGCGTTAGGGTAAGGGCACAGCCAGGCTGGA
GTCAGTGTCTGCCCCTGAGGTCTTTTAAGTTGAGGGCTGGGAATGAAACCTATAGCCTTTGTGCTGTTCTGCCTT
GCCTGTGAGCTATGTCACTCCCCTCCCACTCCTGACCATATTCCAGACACCTGCCCTAATCCTCAGCCTGCTCAC
TTCACTTCTGCATTATATCTCCAAGGCGTTGGTATATGGAAAAAGATGTAGGGGCTTGGAGGTGTTCTGGACAGT
GGGGAGGGCTCCAGACCCAACCTGGTCACAGAAGAGCCTCTCCCCCATGCATACTCATCCACCTCCCTCCCCTAG
AGCTATTCTCCTTTGGGTTTCTTGCTGCTTCAATTTTATACAACCATTATTTAAATATTATTAAACACATATTGT
TCTCT
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FIGURE 4245

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CCCTGAGCAGAAGGCTCTGGTGATTGGTGGAGAGGCTTGTATGTGGGGAGAATATGTGGACAACACAAACCTGGT
CCCCAGGCTCTGGTAAGGGTTTTCGGGGGGGGAGGTGGAGGGTTGGGCCTGAGAGCAGGAGTTCTCCCTTAGAGAC
CCAATCCCATCTAGCCACCTCTGGACTAGTACCCTTCTTTCAGGCCTGAGAGAGAGCAGGCCGTGCAACGAGCCT
TCTGAAGATTTGTGTGCAATATTCACTCTCCACATGACTTCCGTCTATATCCCTCCAGCTGCCCTTTGGTATGTG
GGATAGGGATTGTTAACCTTACTTCCCAGAGAGATAATGAGGCCTGGAGAACATAGGTGAGTTGCTCAAGACCCA
GCACAAGCATCCATGATTCCTGTAATAAGGCTTCCCTCTGCTGTTTTCACTGCAGCCTTACCAAGTATGGTTGGG
TGTGCAAAGTTTACATTTTAAGGACCTCTGCTGCTGCCACTGTCATTGTGGTTAATGATGGCTTTAAGGTTTATT
CTTATTCCCATATCTTTGAGAGAGGAAGAGAGTGGGATTGCTACCCACATTTTAATGAAGGTGGAGCTGAGCCGT
AGAACTCTCTGGGAGCCATCCAACCTGGCTGTGGCTCATAACAAGGTATTGATCACTTCCTTTGGCCTGAGTGAG
TCCAGGGTGCCTAGACAAGAGGTAGCAGCCTGTGGATGTCCAGCACCTTTGCAGGGAATACAGGGCCCAATCTGG
CACATGCCCCTTTTCCTCCAGGCCCAGAGCAGGGGCTGTTGCCGAAAGGCTGTGGAGCAACAAGTTGACATCTGA
CCTGACATTTGCCTATGAACGTTTGTCACACTTCCGCTGTGAATTGCTGAGGTAAGCAAGCTGTGGGGCCTTCGC
AAGGCGGAGCAGGCCAGATCCAGGGCTGGGGAACCCCTTAGAGAGAGGAAGACAATAATTAACAATAGCTAACAC
TTACAGAGGCTTATAGTCAGCCCTCATCCACGGATTCAACCAACTGCGATAAAAGTATTCAGGAAAAAAAAAT
ACAACAAAAAATGGTACAAATAAAAAATACTGTATAACAACT
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FIGURE 4246

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CCAGAAAGGGGCAGGCTGAGGCTGGGGGAGGGGCTCAAGGGAGCCCAGCTGGGAGGGCCCAGGCAGGCAGTGCGG
AGCTGGCCGTGGGCTGCCTACCCTTTCATCTCTGCAACTCCTTCCTCCCTGGGCCTCCCTTCTGGAGAAGGGCCA
GAGAATGTCGTCCCAGCCAGCAGGGAACCAGACCTCCCCCGGGGCCACAGAGGACTACTCCTATGGCAGCTGGTA
CATCGATGAGCCCCAGGGGGGCGAGGAGCTCCAGCCAGAGGGGGAAGTGCCCTCCTGCCACACCAGCATACCACC
CGGCCTGTACCACGCCTGCCTGGCCTCGCTGTCAATCCTTGTGCTGCTGCTCCTGGCCATGCTGGTGAGGCGCCG
CCAGCTCTGGCCTGACTGTGTGCGTGGCAGGCCCGGCCTGCCCAGCCCTGTGGATTTCTTGGCTGGGGACAGGCC
CCGGGCAGTGCCTGCTGCTGTTTTCATGGTCCTCCTGAGCTCCCTGTGTTTGCTGCTCCCCGACGAGGACGCATT
GCCCTTCCTGACTCTCGCCTCAGCACCCAGCCAAGATGGGAAAACTGAGGCTCCAAGAGGGGCCTGGAAGATACT
GGGACTGTTCTATTATGCTGCCCTCTACTACCCTCTGGCTGCCTGTGCCACGGCTGGCCACACAGCTGCACACCT
GCTCGGCAGCACGCTGTCCTGGGCCCACCTTGGGGTCCAGGTCTGGCAGAGGGCAGAGTGTCCCCAGGTGCCCAA
GATCTACAAGTACTACTCCCTGCTGGCCTCCCTGCCTCTCCTGCTGGGCCTCGGATTCCTGAGCCTTTGGTACCC
TGTGCAGCTGGTGAGAAGCTTCAGCCGTAGGACAGGAGCAGGCTCCAAGGGGCTGCAGAGCAGCTACTCTGAGGA
ATATCTGAGGAACCTCCTTTGCAGGAAGAAGCTGGGAAGCAGCTACCACACCTCCAAGCATGGCTTCCTGTCCTG
GGCCCGCGTCTGCTTGAGACACTGCATCTACACTCCACAGCCAGGATTCCATCTCCCGCTGAAGCTGGTGCTTTC
AGCTACACTGACAGGGACGGCCATTTACCAGGTGGCCCTGCTGCTGCTGGTGGGCGTGGTACCCACTATCCAGAA
GGTGAGGGCAGGGGTCACCACGGATGTCTCCTACCTGCTGGCCAGCTTTGGAATCGTGCTCTCCGAGGACAAGCA
GGAGGTGGTGGAGCTGGTGAAGCACCATCTGTGGGCTCTGGAAGTGTGCTACATCTCAGCCTTGGTCTTGTCCTG
CTTACTCACCTTCCTGGTCCTGATGCGCTCACTGGTGACACACAGGACCAACCTTCGAGCTCTGCACCGAGGAGC
TGCCCTGGACTTGAGTCCCTTGCATCGGAGTCCCCATCCCTCCCGCCAAGCCATATTCTGTTGGATGAGCTTCAG
TGCCTACCAGACAGCCTTTATCTGCCTTGGGCTCCTGGTGCAGCAGATCATCTTCTTCCTGGGAACCACGGCCCT
GGCCTTCCTGGTGCTCATGCCTGTGCTCCATGGCAGGAACCTCCTGCTCTTCCGTTCCCTGGAGTCCTCGTGGCC
CTTCTGGCTGACTTTGGCCCTGGCTGTGATCCTGCAGAACATGGCAGCCCATTGGGTCTTCCTGGAGACTCATGA
TGGACACCCACAGCTGACCAACCGGCGAGTGCTCTATGCAGCCACCTTTCTTCTCTTCCCCCTCAATGTGCTGGT
GGGTGCCATGGTGGCCACCTGGCGAGTGCTCCTCTCTGCCCTCTACAACGCCATCCACCTTGGCCAGATGGACCT
CAGCCTGCTGCCACCGAGAGCCGCCACTCTCGACCCCGGCTACTACACGTACCGAAACTTCTTGAAGATTGAAGT
CAGCCAGTCGCATCCAGCCATGACAGCCTTCTGCTCCCTGCTCCTGCAAGCGCAGAGCCTCCTACCCAGGACCAT
GGCAGCCCCCAGGACAGCCTCAGACCAGGGGAGGAAGACGAAGGGATGCAGCTGCTACAGACAAAGGACTCCAT
GGCCAAGGGAGCTAGGCCCGGGGCCAGCCGCGGCAGGGCTCGCTGGGGTCTGGCCTACACGCTGCTGCACAACCC
AACCCTGCAGGTCTTCCGCAAGACGGCCCTGTTGGGTGCCAATGGTGCCCAGCCCTGAGGGCAGGGAAGGTCAAC
CCACCTGCCCATCTGTGCTGAGGCATGTTCCTGCCTACCATCCTCCTCCCTCCCGGCTCTCCTCCCAGCATCAC
ACCAGCCATGCAGCCAGCAGGTCCTCCGGATCACTGTGGTTGGGTGGAGGTCTGTCTGCACTGGGAGCCTCAGGA
GGGCTCTGCTCCACCCACTTGGCTATGGGAGAGCCAGCAGGGGTTCTGGAGAAAAAAACTGGTGGGTTAGGGCCT
TGGTCCAGGAGCCAGTTGAGCCAGGGCAGCCACATCCAGGCGTCTCCCTACCCTGGCTCTGCCATCAGCCTTGAA
GGGCCTCGATGAAGCCTTCTCTGGAACCACTCCAGCCCAGCTCCACCTCAGCCTTGGCCTTCACGCTGTGGAAGC
AGCCAAGGCACTTCCTCACCCCCTCAGCGCCACGGACCTCTCTGGGGAGTGGCCGGAAAGCTCCCGGGCCTCTGG
CCTGCAGGGCAGCCCAAGTCATGACTCAGACCAGGTCCCACACTGAGCTGCCCACACTCGAGAGCCAGATATTTT
TGTAGTTTTTATGCCTTTGGCTATTATGAAAGAGGTTAGTGTGTTCCCTGCAATAAACTTGTTCCTGAGAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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4607/6881
FIGURE 4247

MSSQPAGNQTSPGATEDYSYGSWYIDEPQGGEELQPEGEVPSCHTSIPPGLYHACLASLSILVLLLLAMLVRRRQ
LWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLLPDEDALPFLTLASAPSQDGKTEAPRGAWKILG
LFYYAALYYPLAACATAGHTAAHLLGSTLSWAHLGVQVWQRAECPQVPKIYKYYSLLASLPLLLGLGFLSLWYPV
QLVRSFSRRTGAGSKGLQSSYSEEYLRNLLCRKKLGSSYHTSKHGFLSWARVCLRHCIYTPQPGFHLPLKLVLSA
TLTGTAIYQVALLLLVGVVPTIQKVRAGVTTDVSYLLASFGIVLSEDKQEVVELVKHHLWALEVCYISALVLSCL
LTFLVLMRSLVTHRTNLRALHRGAALDLSPLHRSPHPSRQAIFCWMSFSAYQTAFICLGLLVQQIIFFLGTTALA
FLVLMPVLHGRNLLLFRSLESSWPFWLTLALAVILQNMAAHWVFLETHDGHPQLTNRRVLYAATFLLFPLNVLVG
AMVATWRVLLSALYNAIHLGQMDLSLLPPRAATLDPGYYTYRNFLKIEVSQSHPAMTAFCSLLLQAQSLLPRTMA
APQDSLRPGEEDEGMQLLQTKDSMAKGARPGASRGRARWGLAYTLLHNPTLQVFRKTALLGANGAQP

4608/6881
FIGURE 4248

GGCACGAGGGGCGCTGGGGCCCTGGGCAGCGCGGGCTCGATGTGTGTCAGCCAAGTAGCTGGTCCCACTGGAGCG
GTGAGGTCGCCACCGGATAGTGTTCCTGCCCCATTACTAGCGATCTGTGACCTTGGGCCAGTGATTTTACTGAGT
CTTGCTTCCCTCATCTTTAAAATGTGGCTAATGCCTGCCTTAGGGAACCGTTGTGAGGATTAAGTGAGACATGGT
ATATAAAACGACCTCCTTCTGGCATAAACTTGAGGTGGAAGATACCTTGAGGATGCTTGAAGGTCTGCTAGGCAG
CTTCACAGCCTTTTCTTTCCTCTTCTCTATCAGAGGTCTCTTTGGAAGCAATAATGATGACTATAACAAGAACTT
ATCTTGCTTTGCAAGATTCTTCCGCCGTCAGAGTTTCTGATTTATTTTCTGGGGTTCCATGTATGCCAGGGAGAA
AGAGAGAGCGCGAAAGAGAGAGG**ATG**TCTCTCTCAGACTGGCACCTGGCGGTGAAGCTGGCTGACCAGCCACTTA
CTCCAAAGTCTATTCTTCGGTTGCCAGAGACAGAACTGGGAGAATACTCGCTAGGGGGCTATAGTATTTCATTTC
TGAAGCAGCTTATTGCTGGCAAACTCCAGGAGTCTGTTCCAGACCCTGAGCTGATTGATCTGATCTACTGTGGTC
GGAAGCTAAAAGATGACCAGACACTTGACTTCTATGGCATTCAACCTGGGTCCACTGTCCATGTTCTGCGAAAGT
CCTGGCCTGAACCTGATCAGAAACCGGAACCTGTGGACAAAGTGGCTGCCATGAGAGAGTTCCGGGTGTTGCACA
CTGCCCTGCACAGCAGCTCCTCTTACAGGGAGGCGGTCTTTAAGATGCTCAGCAATAAGGAGTCTCTGGATCAGA
TCATTGTGGCCACCCCAGGCCTCAGCAGTGACCCTATTGCTCTTGGGGTTCTCCAGGACAAGGACCTCTTCTCTG
TCTTCGCTGATCCCAATATGCTTGATACGTTGGTGCCTGCTCACCCAGCCCTCGTCAATGCCATTGTCCTGGTTC
TGCACTCCGTAGCAGGCAGTGCCCCAATGCCTGGGACTGACTCCTCTTCCCGGAGCATGCCCTCCAGCTCATACC
GGGATATGCCAGGTGGCTTCCTGTTTGAAGGGCTCTCAGATGATGAGGATGACTTTCACCCAAACACCAGGTCCA
CACCCTCTAGCAGTACTCCCAGCTCCCGCCCAGCCTCCCTGGGGTACAGTGGAGCTGCTGGGCCCCGGCCCATCA
CCCAGAGTGAGCTGGCCACCGCCTTGGCCCTGGCCAGCACTCCGGAGAGCAGCTCTCACACACCGACTCCTGGCA
CCCAGGGTCATTCCTCAGGGACCTCACCAATGTCCTCTGGTGTCCAGTCAGGGACGCCCATCACCAATGATCTCT
TCAGCCAAGCCCTACAGCATGCCCTTCAGGCCTCTGGGCAGCCCAGCCTTCAGAGCCAGTGGCAGCCCCAGCTGC
AGCAGCTACGTGACATGGGCATCCAGGACGATGAGCTGAGCCTGCGGGCCCTGCAGGCCACCGGTGGGGACATCC
AAGCAGCCCTGGAGCTCATCTTTGCTGGAGGAGCCCCA**TGA**ACTCCCTGCTTCCCCTGAACCCCCAGCAAGTTGC
AGAGGCTACTGCCCTTGGGAGGCACTCATGAAGGTGCCTCCATCTCTCCCTTCCCCAATATACCTGATGGTCAAC
TCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

4609/6881
FIGURE 4249

MSLSDWHLAVKLADQPLTPKSILRLPETELGEYSLGGYSISFLKQLIAGKLQESVPDPELIDLIYCGRKLKDDQT
LDFYGIQPGSTVHVLRKSWPEPDQKPEPVDKVAAMREFRVLHTALHSSSSYREAVFKMLSNKESLDQIIVATPGL
SSDPIALGVLQDKDLFSVFADPNMLDTLVPAHPALVNAIVLVLHSVAGSAPMPGTDSSSRSMPSSSYRDMPGGFL
FEGLSDDEDDFHPNTRSTPSSSTPSSRPASLGYSGAAGPRPITQSELATALALASTPESSSHTPTPGTQGHSSGT
SPMSSGVQSGTPITNDLFSQALQHALQASGQPSLQSQWQPQLQQLRDMGIQDDELSLRALQATGGDIQAALELIF
AGGAP

4610/6881
FIGURE 4250

GGCGGGACGCGCACGCTCACAGTGAGGTCTCAAAAGATCCCCACCTCAGTTTTCTCATCTGGAAAGTGGGGCCTC
GTAATCCTGTCCGACCCGGCGCGGGACAGTAGGTGTCAGGGATTTTGGTGACCCCACGCTCGAGGCCTCTGCAAA
AGGGGGCTGTCCAGTGGCCCAGAGACGCAGCCGGCGGGGCTTTTGTCTAGCGGGGGAGTCTTAACTGAGAGGCCA
CGCAGGCCGGCAGGAAGCCGCTCCACAGGAGGGGGCTCAAGGAGAGGGGATCTCCTCCCTCCAGACTCCGGCCCC
GCCAGAGTAGCTCTAGGGTATCTTCCCAGAAACTGCCCCGCACGCACTGGCGAGCTGGGAGCGCCACCACGGCTT
TCAAAAAACCCGCACACACCAAGATAATAATGTGTCGTTCGCTCGTTTCGCGCAAGCGGAGTCGCGTCCGCCTTC
CCGAGCTCCGGCACACAGACCTCAGGCCGCTCTCGCGCTCTCCGGGGCCCCGAGAACAATGCCCGTCCTCTCCGC
GCGCAGGAGGGAGTTGGCGGACCACGCGGGGTCGGGGCGACGGAGCGGGCCCAGCCCCACGGCCAGGTCGGGGCC
CCACCTCTCGGCTCTGAGAGCCCAGCCGGCCCGGGCCGCGCACCTGTCAGGTCGGGGGACCTACGTGCGCCGCGA
CACGGCGGGAGGCGGGCCGGGCCAGGCTCGTCCCCTCGGCCCTCCCGGAACTAGTCTCCTAGGCCGCGGCGCCCG
CCGGAGCGGAGAGGGCTGGTGCCCCGGAGCCTTCGAGTCGGGGGCTAGAGCGGCCAGGCCTCCGAGCCGGGTCGA
GCCGAGGCTGGCGACGGCTGCGTCACGCGAGGGGGCGGGGCTGCCACGGGCGGAGGTCGCAGCCGGAAGCGGAAG
AGGCGCTCGGAGCGGGGAGTGGGGCCTAGCTGCAGCCGGAGCCTGGGAGACGCCATGACCGCCTGCCCTACCAGA
GGAGGTACCGGGAGCGCCGTGACAGCGATACATACCGGTGTGAAGAGCGGAGCCCATCCTTTGGAGAGGACTACT
ATGGACCTTCACGTTCTCGTCATCGTCGGCGATCGCGGGAGAGGGGGCCATACCGGACCCGCAAGCATGCCCACC
ACTGCCACAAACGCCGCACCAGGTCTTGTAGCAGCGCCTCCTCGAGAAGCCAACAGAGCAGTAAGCGCAGCAGCC
GGAGTGTGGAAGATGACAAGGAGGGTCACCTGGTGTGCCGGATCGGCGATTGGCTCCAAGAGCGATATGAGATTG
TGGGGAACCTGGGTGAAGGCACCTTTGGCAAGGTGGTGGAGTGCTTGGACCATGCCAG